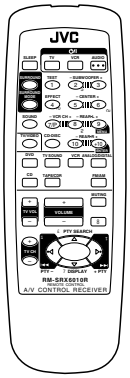
JVC

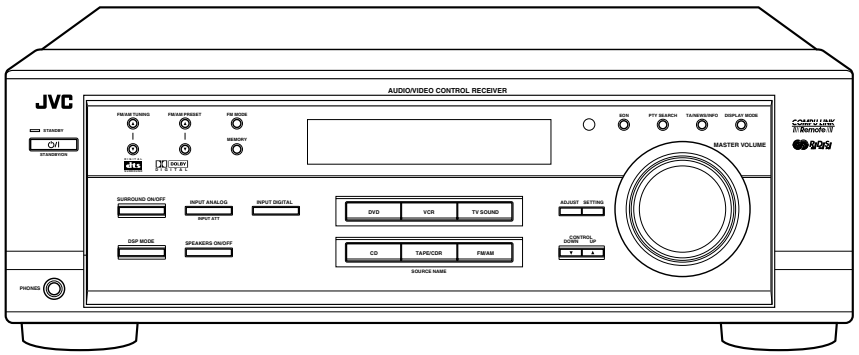
SERVICE MANUAL

AUDIO/VIDEO CONTROL RECEIVER

RX-6010RBK
RX-6012RSL

Area Suffix
RX-6010RBK
E ··· Continental Europe
EN ···· Northern Europe
RX-6010RSL
B ---------- U.K.
E ··· Continental Europe
EN ···· Northern Europe





As for RX-6012RSL the body is silver color

COMPU LINK Remote

DIGITAL dts SURROUND

DOLBY DIGITAL

RIDISI

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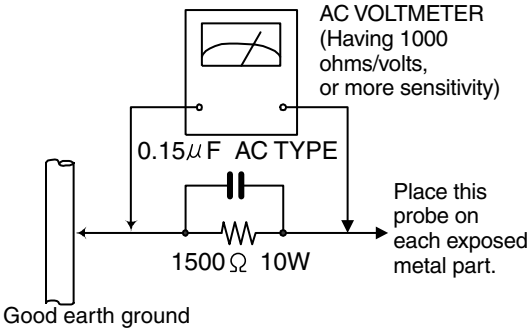
No.20932
Apr. 2001

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer`s warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to eachexposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.
When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer. (Except the JC version)

Disassembly method

■ Removing the top cover (See Fig.1)

1. Remove the four screws A attaching the top cover on both sides of the body.
2. Remove the three screws B on the back of the body.
3. Remove the top cover from behind in the direction of the arrow while pulling both sides outward.

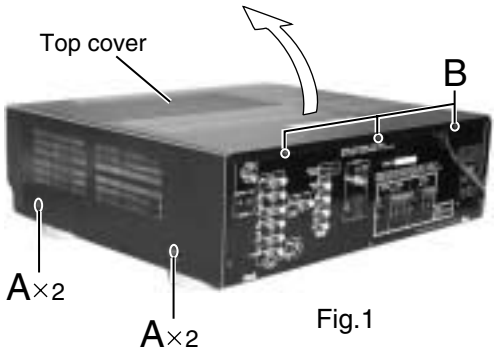


Fig.1

■ Removing the front panel assembly (See Fig.2 and 3)

- Prior to performing the following procedure, remove the top cover.

1. Disconnect the card wire from connector CN402 on the audio board and CN201 on the power supply board in the front panel assembly.
2. Cut off the tie band fixing the harness.
3. Remove the three screws C attaching the front panel assembly.
4. Remove the four screws D attaching the front panel assembly on the bottom of the body. Detach the front panel assembly toward the front.

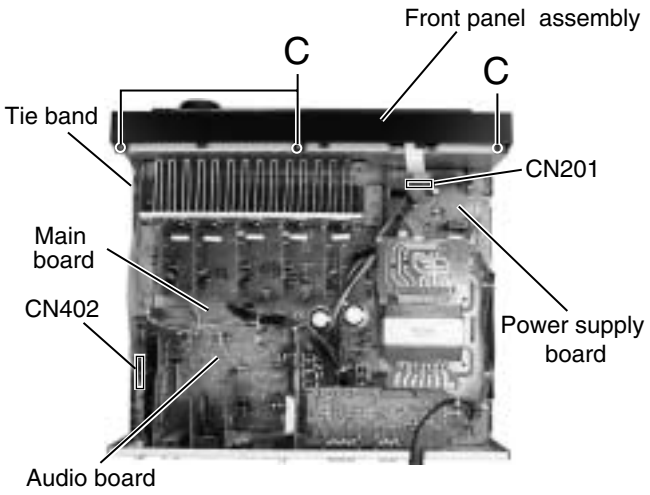


Fig.2

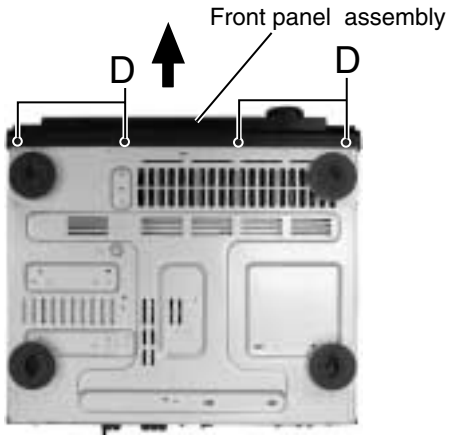


Fig.3

■ Removing the rear panel (See Fig.4)

- Prior to performing the following procedure, remove the top cover.

1. Remove the power cord stopper from the rear panel by moving it in the direction of the arrow.
2. Remove the seventeen screws E attaching the each boards to the rear panel on the back of the body.
3. Remove the four screws F attaching the rear panel on the back of the body.

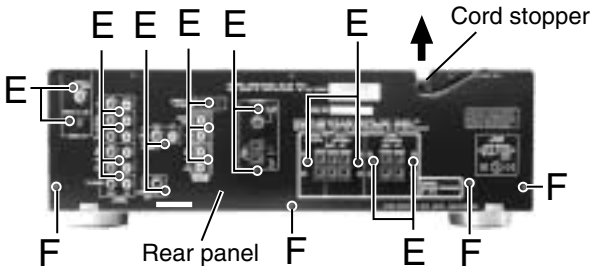


Fig.4

■ Removing each board connected to the rear side of the audio board

(See Fig.5 to 8)

- Prior to performing the following procedure, remove the top cover and the rear panel.

1. Cut off the tie band fixing the harness.
2. Disconnect the DSP board from connector CN481 on the audio board.
3. Disconnect the audio input board. DVD board and the video board from connector CN421, CN431 and CN441 on the audio board.
4. Disconnect the tuner board from connector CN411 and CN412 on the audio board.

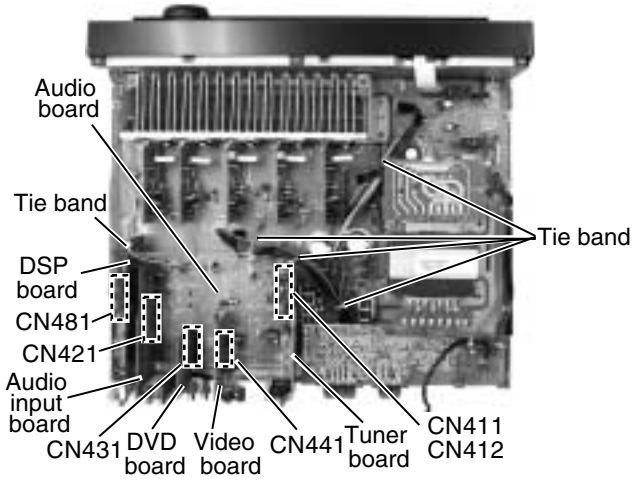


Fig.5

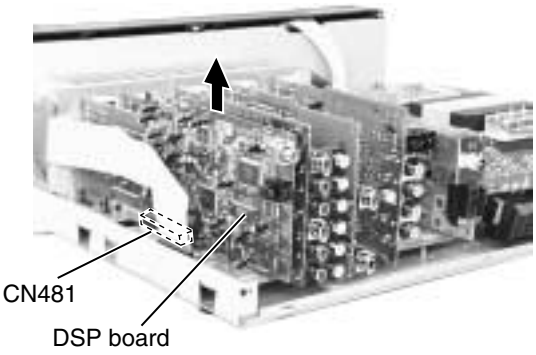


Fig.6

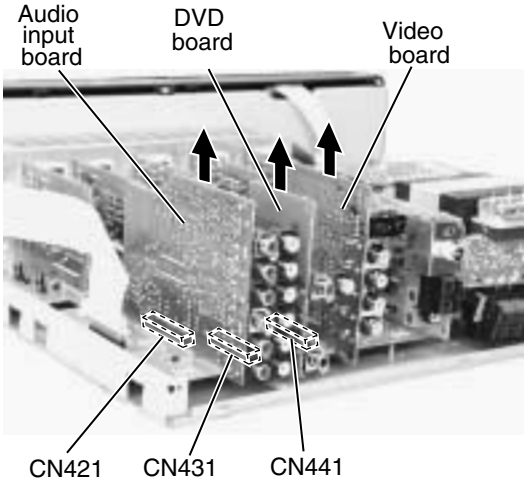


Fig.7

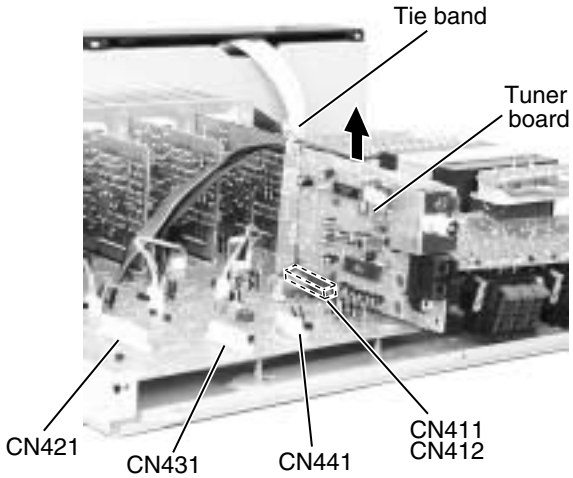


Fig.8

■Removing the audio board (See Fig.9)

・Prior to performing the following procedure, remove the top cover and the rear panel.

1. Disconnect the card wire from connector CN402 on the audio board.
2. Disconnect the relay board from the audio board and the power supply board. (CN291,CN491)
3. Disconnect the harness from connector CN473, CN471, CN472, CN403 and CN385.
4. Remove the three screws G attaching the audio board assembly.
5. Remove the screw H attaching the audio board assembly.

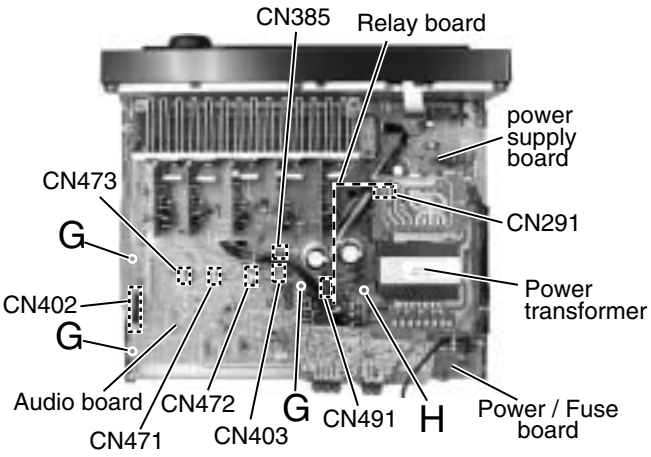


Fig.9

■Removing the main board. (See Fig.10)

・Prior to performing the following procedure, remove the top cover, the rear panel and audio board.

1. Disconnect the harness from connector CN241 and CN203 on the power supply board respectively.
2. Remove the four screws I and the two screws J attaching the main board.

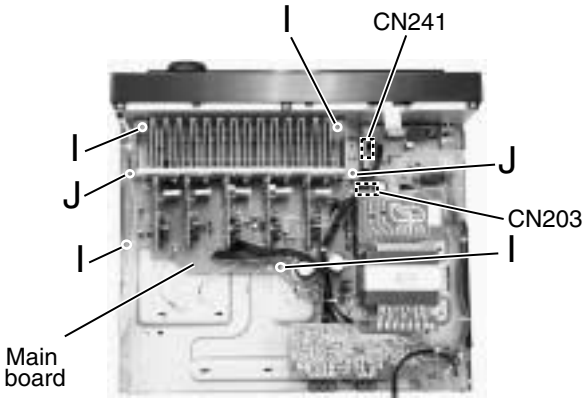


Fig.10

■Removing the Heat sink (See Fig.11 to 12)

1. Remove the ten screws K and four screws L attaching the heat sink.
2. Remove the two screws L' attaching the heat sink from the rear side of main board.

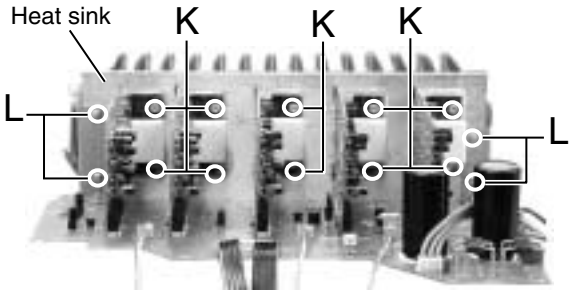


Fig.11

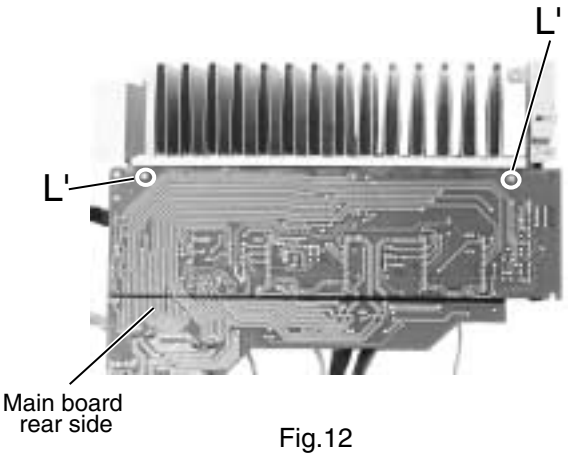


Fig.12

■ Removing the power transformer (See Fig.13)

・ Prior to performing the following procedures, remove the top cover.

1. Unsolder the two harnesses connected to the power transformer.
2. Disconnect the harness from connector CN251 and unsolder the harnesses connected to FW201 on the power transformer board.
3. Remove the four screws M attaching the power transformer.

■ Removing the power / fuse board (See Fig.13)

・ Prior to performing the following procedure, remove the top cover and the rear panel.

1. Remove the screw N attaching the power / fuse board.
2. Unsolder the power cord and other harnesses connected to the power / fuse board.

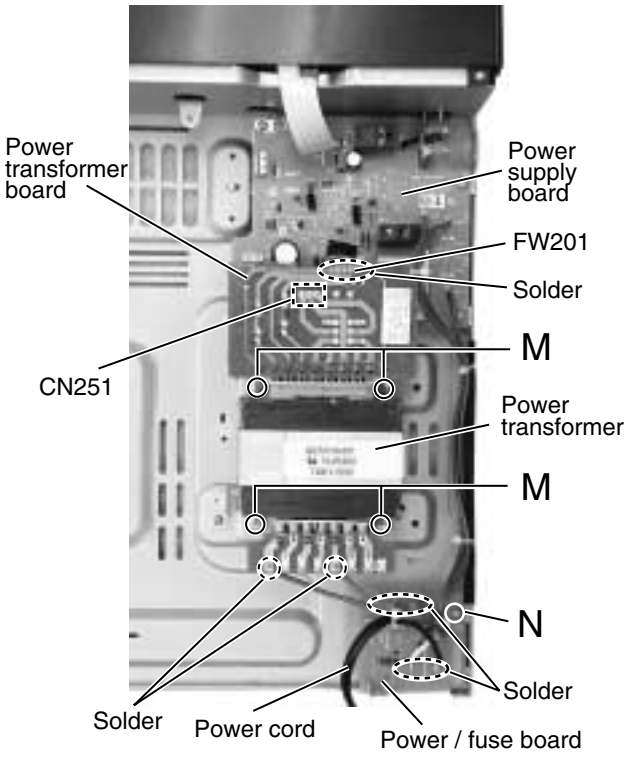


Fig.13

■ Removing the power supply board (See Fig.14 and 15)

・ Prior to performing the following procedure, remove the top cover and the front panel.

1. Remove the one nut attaching the headphone jack of the power supply board on the front side of the body.
2. Disconnect the harness connected to connector CN241,CN201,CN203 and CN291 on the power transformer board (If necessary, cut off the band fixing the harness on the side of the base chassis).
3. Remove the three screws O attaching the power supply board and pull out the power supply board from the front bracket backward.
4. Unsolder the three harnesses connected to the power supply board.

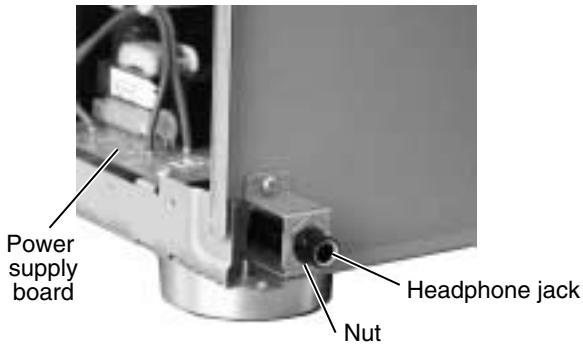


Fig.14

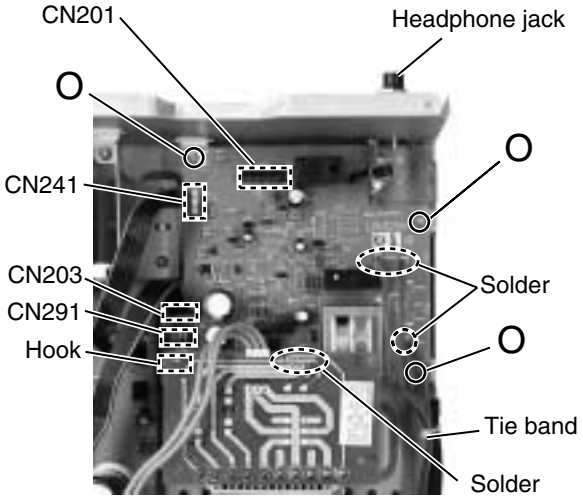


Fig.15

■Removing the system control board / power switch board (See Fig.16 to 18)

・ Prior to performing the following procedure, remove the top cover and the front panel assembly.

1. Pull out the volume knob on the front side of the front panel and remove the nut attaching the system control board.

2. Remove the two screws P attaching the power switch board.

3. Disconnect the harness from connector CN714 on the power switch board.

4. Remove the six screws Q attaching the system control board on the back of the front panel.

5. On the back of the front panel, release the eight joints by pushing the joint tabs inward.
   Remove the operation switch panel toward the front.

6. Release the two hook attaching the system control board.

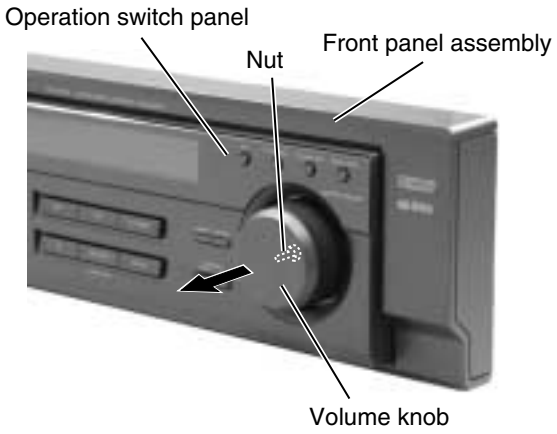


Fig.16

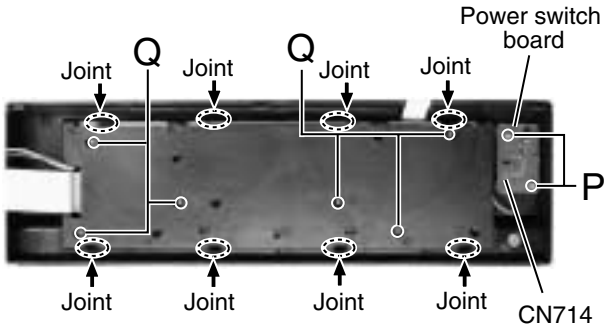


Fig.17

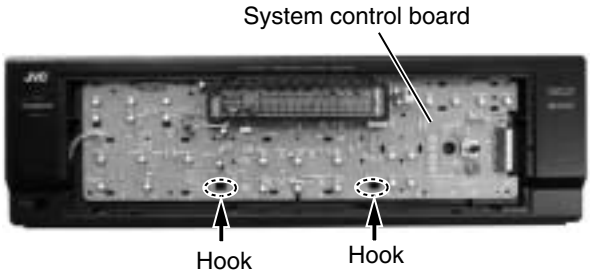


Fig.18

Adjustment method

■ Tuner section

1.Tuner range

FM		87.5MHz~108.0MHz
AM	(MW)	522kHz~1629kHz
	(LW)	144kHz~ 288kHz

■ Power amplifier section

Adjustment of idling current

Measurement location	TP301(Lch) , TP302(Rch)
Adjustment part	VR301(Lch) , VR302(Rch)

Attention
This adjustment does not obtain a correct adjustment value immediately after the amplifier is used (state that an internal temperature has risen).
Please adjust immediately after using the amplifier after turning off the power supply of the amplifier and falling an internal temperature.

<Adjustment method>

1.Set the volume control to minimum during this adjustment.(No signal & No load)

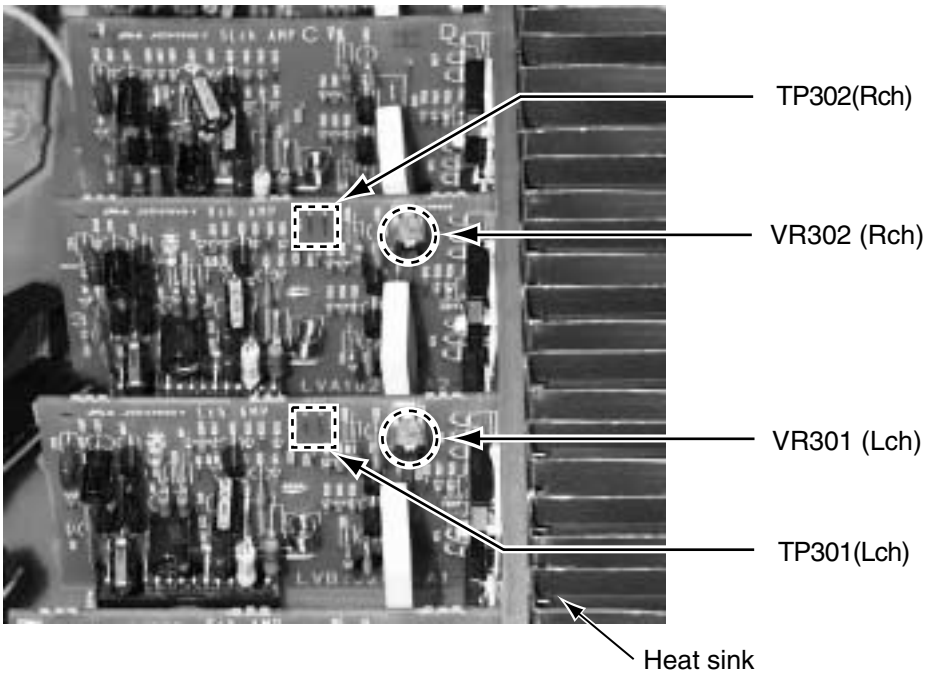
2.Set the surround mode OFF.

2.Turn VR301 and VR302 fully counterclockwise to warm up before adjustment.
If the heat sink is already warm from previous use the correct adjustment can not be made.

3.For L-ch,connect a DC voltmeter between TP301's B216 and B217 (Lch)
And,connect it between TP302's B218 and B219(Rch).

4.30 minutes later after power on, adjust VR301 for L-ch, or VR302 for R-ch so that the DC voltmeter value has 1mV~10mV.

* It is not abnormal though the idling current might not become 0mA even if it is finished to turn variable resistance (VR301,VR302) in the direction of counterclockwise.



Description of major ICs

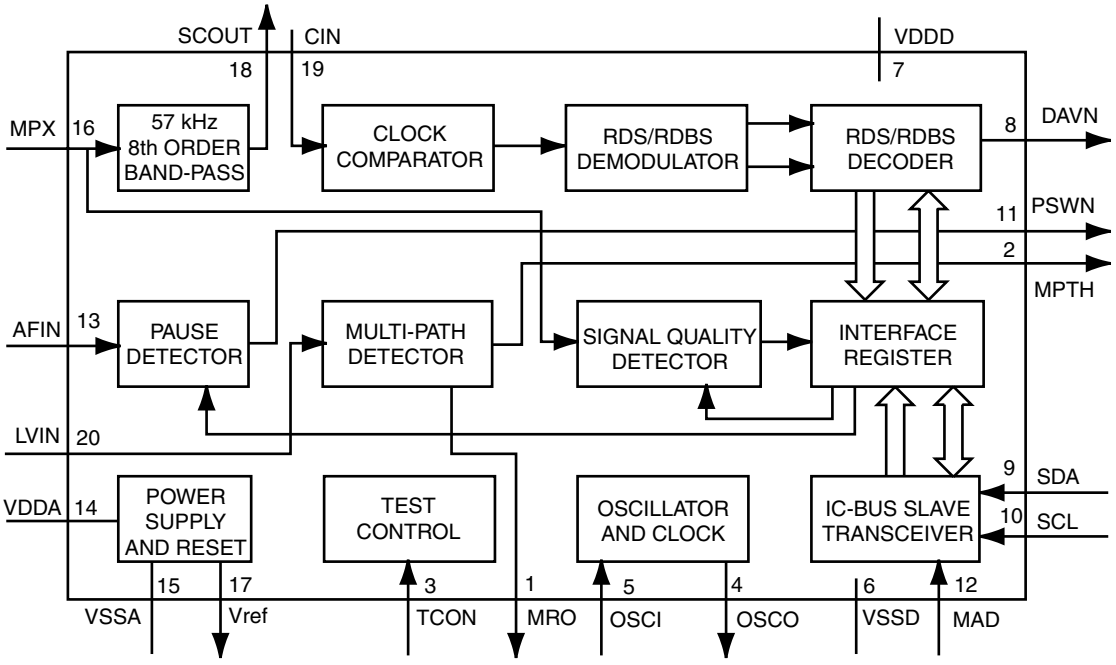
■ SAA6588 (IC191) : RDS detector

1.Terminal Layout

2.Pin Function

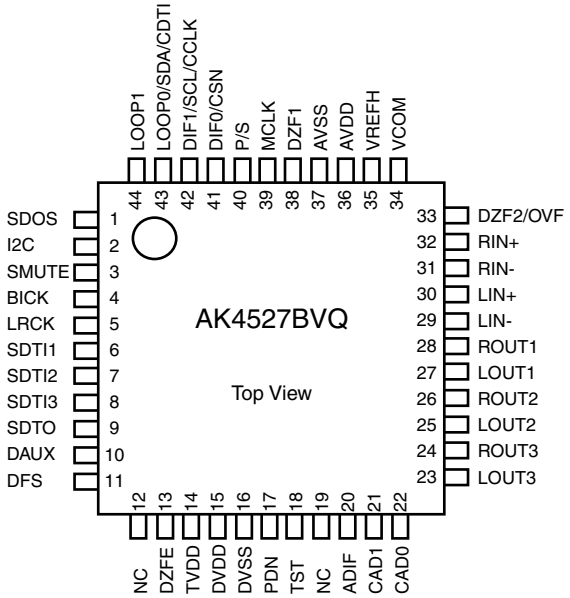
Pin No.	Symbol	I/O	Function
1	MRO	O	Multi-path rectifier output
2	NC	-	Non connect
3	GND	I	Test control input pin
4	OSCO	O	Oscillator output
5	OSCI	I	Oscillator input
6	VSSD	-	Digital ground (0V)
7	VDDD	-	Digital power supply (5V)
8	DAVN	O	Data available output (active LOW)
9	SDA	I/O	IC-bus serial data I/O
10	SCL	I	IC-bus serial clock input
11	NC	-	Non connect
12	GND	-	Connect to ground
13	NC	-	Non connect
14	VDDA	-	Analog power supply (5V)
15	VSSA	-	Connect to ground
16	MPX	I	Multiplex input signal
17	Vref	O	Reference voltage output
18	SCOUT	O	Band-pass filter output
19	CIN	O	Comparator output
20	NC	I	Level input

3.Block Diagram



■ AK4527B (IC601) : A/D,D/A converter

1.Pin layout



2. Pin function (1/2)

AK4527(1/2)

No.	Pin name	I/O	Function
1	SDOS	I	SDTO Source Select Pin (Note 1) "L" : Internal ADC output, "H" : DAUX input
2	I2C	I	Control Mode Select Pin "L" : 3-wire Serial, "H" : I2C Bus
3	SMUTE	I	Soft Mute Pin (Note 1) When this pin goes to "H", soft mute cycle is initialized. When returning to "L", the output mute releases.
4	BICK	I	Audio Serial Data Clock Pin
5	LRCK	I/O	Input Channel Clock Pin
6	SDTI1	I	DAC1 Audio Serial Data Input Pin
7	SDTI2	I	DAC2 Audio Serial Data Input Pin
8	SDTI3	I	DAC3 Audio Serial Data Input Pin
9	SDTO	O	Audio Serial Data Output Pin
10	DAUX	I	Sub Audio Serial Data Input Pin
11	DFS	I	Double Speed Sampling Mode Pin (Note 1) "L" : Normal Speed, "H" : Double Speed
12	NC	-	No Connect No internal bonding.
13	DZEF	I	Zero Input Detect Enable Pin "L" : mode 7 (disable) at parallel mode, zero detect mode is selectable by DZFM2-0 bits at serial mode. "H" : mode 0 (DZF is AND of all six channels)
14	TVDD	-	Output Buffer Power supply Pin, 2.7V~5.5V
15	DVDD	-	Digital Power Supply Pin, 4.5V~5.5V
16	DVSS	-	De-emphasis Pin, 0V
17	PDN	I	Power-Down & Reset Pin When "L", the AK4527B is powered-down and the control registers are reset to default state. If the state of P/S or CAD0-1 changes, then the AK4527B must be reset by PDN.
18	TST	I	Test Pin This pin should be connected to DVSS.

Pin function (2/2) AK4527(1/2)

No.	Pin name	I/O	No Connect Function
19	NC	-	No internal bonding.
			Analog Input Format Select Pin
20	ADIF	I	"H" : Full-differential input, "L" : Single-ended input
			Chip Address 1 Pin
21	CAD1	I	Chip Address 0 Pin
22	CAD0	I	DAC3 Lch Analog Output Pin
23	LOUT3	O	DAC3 Rch Analog Output Pin
24	ROUT3	O	DAC2 Lch Analog Output Pin
25	LOUT2	O	DAC2 Rch Analog Output Pin
26	ROUT2	O	DAC1 Lch Analog Output Pin
27	LOUT1	O	DAC1 Rch Analog Output Pin
28	ROUT1	O	Lch Analog Negative Input Pin
29	LIN-	I	Lch Analog Positive Input Pin
30	LIN+	I	Rch Analog Negative Input Pin
31	RIN-	I	Rch Analog Positive Input Pin
32	RIN+	I	Zero Input Detect 2 Pin (Note 2)
33	DZF2	O	When the input data of the group 1 follow total 8192LRCK cycles with "0" input data, this pin goes to "H".
			Analog Input Overflow Detect Pin (Note 3)
	OVF	O	This pin goes to "H" if the analog input of Lch or Rch is overflows.
			Common Voltage Output Pin,AVDD/2
34	VCOM	O	Large external capacitor around 2.2uF is used to reduce power-supply noise.
			Positive Voltage Reference Input Pin,AVDD
35	VREFH	I	Analog Power Supply Pin,4.5V~5.5V
36	AVDD	-	Analog Ground Pin,0V
37	AVSS	-	Zero Input Detect 1 Pin (Note 2)
38	DZF1	O	When the input data of the group 1 follow total 8192 LRCK cycles with "0" input data, this pin goes to "H".
			Master Clock Input Pin
39	MCLK	I	Parallel / Serial Select Pin
40	P/S	I	"L" : Serial control mode, "H" : Parallel control mode
			Audio Data Interface Format 0 Pin in parallel mode
41	DIF0	I	Chip select pin in 3-wire serial control mode
	CSN	I	This pin should be connected to DVDD at I2C bus control mode
			Audio Data Interface Format 1 Pin in parallel mode
42	DIF1	I	Control Data Clock Pin in serial control mode
	SCL/CCLK	I	I2C = "L" : CCLK(3-wire Serial), I2C = "H" : SCL(I2CBus)
			Loopback Mode 0 Pin in parallel control mode
43	LOOP0	I	Enables digital loop-back from ADC to 3 DACs.
			Control Data Input Pin in serial control mode
	SAD/CDTI	I/O	I2C = "L" : CDTI(3-wire Serial), I2C = "H" : SDA(I2CBus)
			Loopback Mode 1 Pin (Note 1)
44	LOOP1	I	Enable all 3 DAC channels to be input from SDTII.

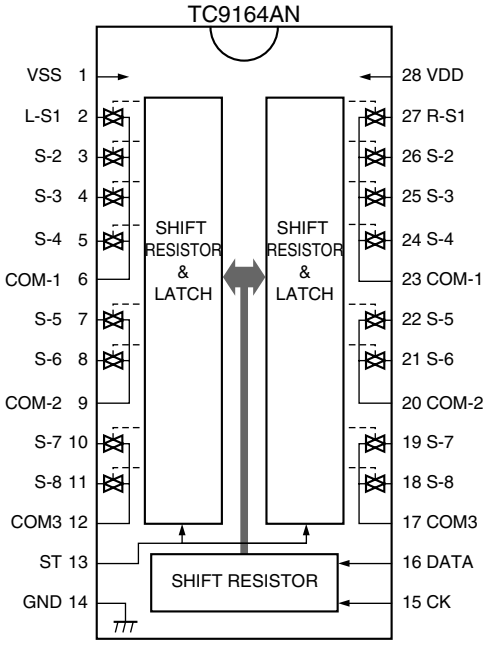
Notes : 1. SDOS, SMUTE, DFS, and LOOP1 pins are ORed with register data if P/S = "L".
2. The group 1 and 2 can be selected by DZFM2-0 bit if P/S = "L" and DZFME = "L".
3. This pin becomes OVF pin if OVFE bit is set to "1" at serial control mode.
4. All input pins should not be left floating.

■ TC9164AN (IC402) : Analog switch

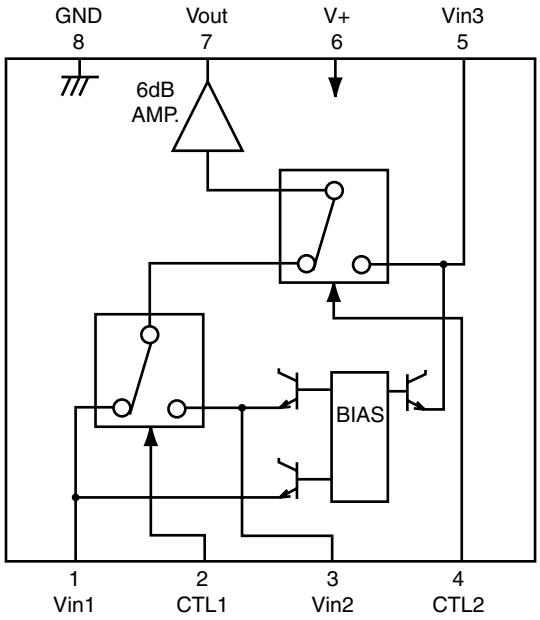
1.Function

Switch to On/Off of S1 to S8 by control of LSI.

2.Terminal Lay out & Block Diagram



■ NJM2246D (IC501) : Video switch

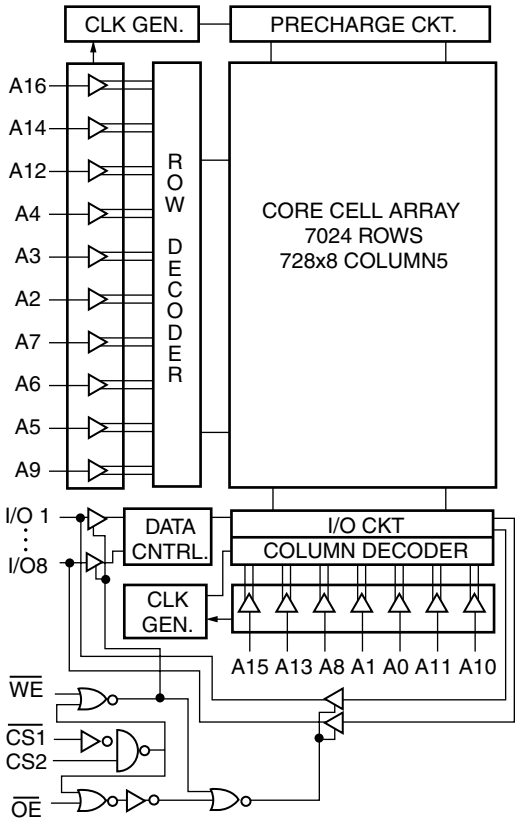


Control input - output signal

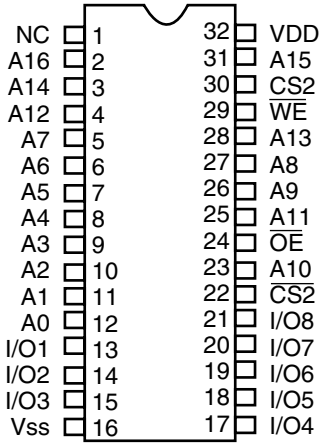
CTL 1	CTL 2	Output
L	L	VIN 1
H	L	VIN 2
L/H	H	VIN 3

■ W24L010AJ-12 (IC641) : CMOS SRAM

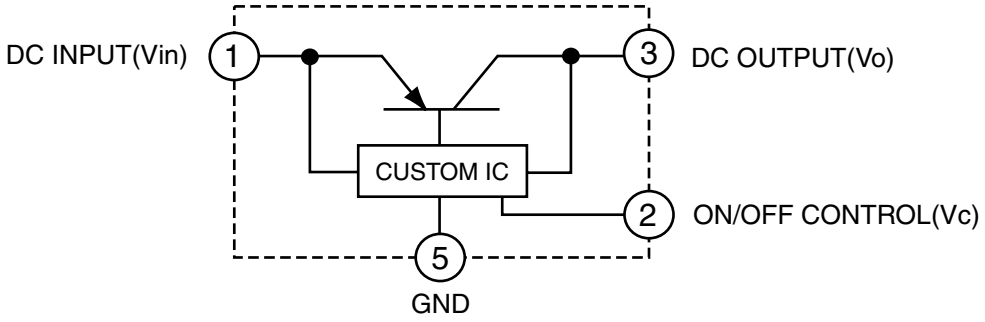
Block diagram



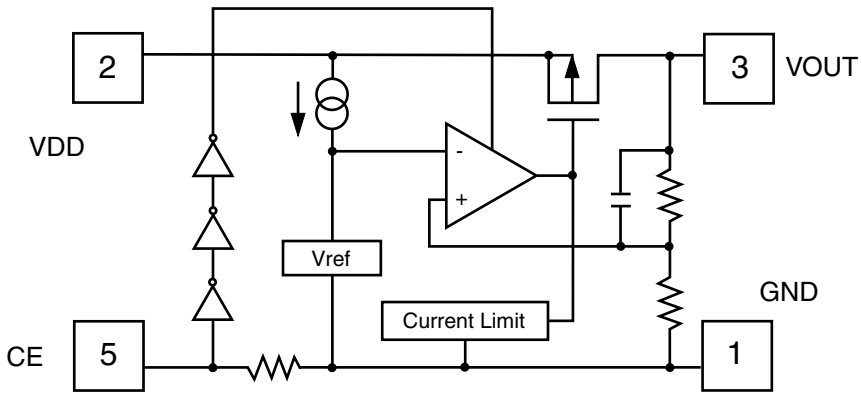
Pin layout



■ PQ3DZ53 (IC681) : Regulator IC

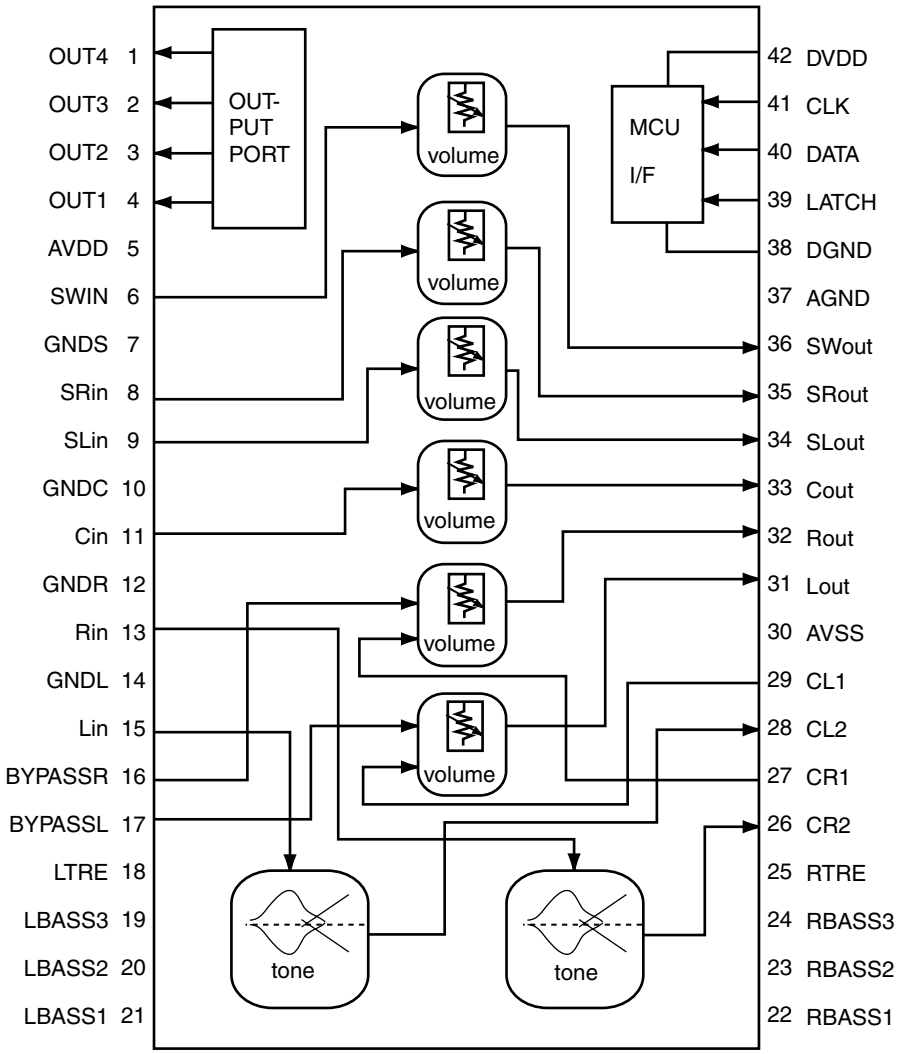


■ RN5RZ33BA (IC683) : Voltage regurator



■ M62446FP (IC428) : 6CH master volume

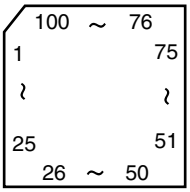
1.Block Diagram



2.Pin Function

Pin No.	Symbol	I/O	Descriptions
1	SURROUND	O	SURROUND control terminal
2	BASS BOOST	O	BASS BOOST control terminal
3	INPUT-ATT	O	Input attenuator control terminal
4	MUTING	O	MUTING control terminal
5	AVDD	-	Analog positive power supply terminal
6	SWIN	I	SUB Woofer volume signal input terminal
7	A.GND	-	Analog ground terminal
8	RR IN	I	R ch volume signal input terminal for rear speaker
9	RL IN	I	L ch volume signal input terminal for rear speaker
10	A.GND	-	Analog ground terminal
11	C IN	I	Center volume signal input terminal
12	A.GND	-	Analog ground terminal
13	R IN	I	R ch volume signal input terminal
14	A.GND	-	Analog ground terminal
15	L IN	I	L ch volume signal input terminal
16,17	BYPASSR,L	-	Non connect
18	LTRE	-	Frequency adjustment terminal tone/treble
19~21	LBASS3~1	-	Frequency adjustment terminal tone/bass
22	CR2	O	Tone output terminal
23,24	RBASS2,4	-	Frequency adjustment terminal tone/bass
25	RTRE	-	Frequency adjustment terminal tone/treble
26	RBASS1	-	Frequency adjustment terminal tone/bass
27	CR1	I	L/R volume input terminal
28	CL2	O	Tone output terminal
29	CL1	I	L/R volume input terminal
30	AVSS	-	Analog negative power supply terminal
31	L OUT	O	L ch output
32	R OUT	O	R ch output
33	C OUT	O	Center volume signal output terminal
34	RL OUT	O	L ch volume signal output terminal for rear speaker
35	RR OUT	O	R ch volume signal output terminal for rear speaker
36	SW OUT	O	SUB Woofer volume signal output terminal
37	A.GND	-	Analog ground terminal
38	D.GND	-	Digital ground terminal
39	VOL STB	I	Latch input terminal
40	VOL DATA	I	Volume data input terminal
41	VOL CLK	I	Clock input terminal for data transfer
42	DVDD	-	Digital power supply terminal

■MN101C35DHK1 (IC701) : System controller



Pin function (1/2)

Pin No.	Symbol	I/O	Function
1	TXD/SB00/P00	I	VOL.JOG IN_1
2	RXD/SBI0/P01	I	VOL.JOG IN_2
3	SBT0/P02	I/O	DATA (PLL)
4	SB01/P03	O	CLK (PLL)
5	SBI1/P04	O	CE (PLL)
6	SBT1/P05	I	VIDEO S/C DVD
7	BUZZER/P06	I	VIDEO S/C VCR
8	VDD	-	Power supply +5V
9,10	OSC1,2	I/O	OSC (8MHz)
11	VSS	-	GND
12	XI	I	GND
13	X0	O	OPEN
14	MMOD	I	GND
15	VREF-	-	GND
16	AN0/PA0	I	KEY INPUT 1 (7KEY)
17	AN1/PA1	I	KEY INPUT 2 (7KEY)
18	AN2/PA2	I	KEY INPUT 3 (7KEY)
19	AN3/PA3	I	KEY INPUT 4 (7KEY)
20	AN4/PA4	I	KEY INPUT 5 (7KEY)
21	AN5/PA5	I	INH IN
22	AN5/PA5	I	CHIP SELECT 1
23	AN5/PA5	I	CHIP SELECT 2
24	VREF+	-	Power supply +5V
25	P07	I	VIDEO S/C DBS
26	RST /P27	I	RESET INPUT
27	RNOUT/TM0I0/P10	O	RDS CLK OUT (RDS)
28	TM1I0/P11	I	DCS INPUT
29	TM2I0/P12	O	DCS OUTPUT
30	TM3I0/P13	I	AVLINK VCR IN
31	TM4I0/P14	O	AVLINK VCR OUT
32	P15	I/O	RDS DATA (RDS)
33	IRQ0/P20	I	PROTECTOR IN
34	SENS/IRQ1/P21	I	REMOCON INPUT
35	IRQ2/P22	I	TUNED IN (TUNER)
36	IRQ3/P23	I	STEREO IN (TUNER)
37	IRQ4/P24	I	RDS DAVN (RDS)
38	P25	I	SELF CHECK INPUT
39	SB02/P30	O	COMMAND (DSP)
40	SBI2/P31	I	STATUS (DSP)

Pin function (2/2)

Pin No.	Symbol	I/O	Function
41	SBT2/P32	O	CLK (DSP)
42	P50	O	READY (DSP)
43	P51	O	RESET (DSP)
44	P52	O	RELAY S
45	P53	O	RELAY C
46	P54	O	RELAY L/R 1
47	DGT17/P67	O	RELAY L/R 2
48	DGT16/P66	O	RELAY HEADPHONE
49～64	G16～G1	O	FL GRID SIGNAL CONTROL OUT
65～80	P87～P90	O	FL SEGMENT SIGNAL CONTROL OUT
81	SEG24/PC2	-	No Connect
82	SEG25/PC1	-	No Connect
83	SEG26/PC0	-	No Connect
84	SEG27/PB7	-	No Connect
85	SEG28/PB6	-	No Connect
86	SEG29/PB5	-	No Connect
87	SEG30/PB4	-	No Connect
88	SEG31/PB3	-	No Connect
89	SEG32/PB2	O	SOUSE MUTE
90	SEG33/PB1	O	SUBWOOFER MUTE
91	SEG34/PB0	O	TUNER MUTE
92	SEG35/PD7	O	POWER ON (STANDBY)
93	SEG36/PD6	O	SURROUND
94	SEG37/PD5	O	DATA (A.SW)
95	SEG38/PD4	O	CLK (A.SW)
96	SEG39/PD3	O	STB (A.SW)
97	SEG40/PD2	O	LATCH (VOL)
98	SEG41/PD1	O	DATA (VOL)
99	SEG42/PD0	O	CLK (VOL)
100	VPP	O	VPP

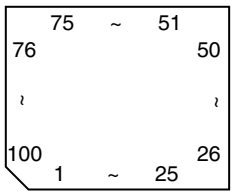
■ TC9446F-014 (IC631) : Digital signal processor for dolby digital (AC-3) / MPEG2 audio decode

Pin No.	Symbol	I/O	Function
1	$\overline{RST}$	I	Reset signal input terminal (L:reset H:Operation usually)
2	MIMD	I	Microcomputer interface mode selection input terminal (L:serial H:IC bus)
3	$\overline{MICS}$	I	Microcomputer interface chip select input terminal
4	$\overline{MILP}$	I	Microcomputer interface latch pulse input
5	MIDIO	I/O	Microcomputer interface data I/O terminal
6	$\overline{MICK}$	I	Microcomputer interface clock input terminal
7	MIACK	O	Microcomputer interface acknowledge output terminal
8~11	FI0~3	I	Flag input terminal 0~3
12	IRQ	I	Interrupt input terminal
13	VSS	-	Digital ground terminal
14	LRCKA	I	Audio interface LR clock input terminal A
15	BCKA	I	Audio interface bit clock input terminal A
16~18	SDO0~2	O	Audio interface data output terminal 0
19	SD03	-	Non connect
20	LRCKB	I	Audio interface LR clock input terminal B
21	BCKB	I	Audio interface bit clock input terminal B
22	SDT0	I	Audio interface data input terminal 0
23	SDT1	I	Audio interface data input terminal 1
24	VDD	-	Power supply for digital circuit
25	LRCKOA	O	Audio interface LR clock output terminal A
26	BCKOA	O	Audio interface bit clock output terminal A
27,28	$\overline{TEST0,1}$	I	Test input terminal 0/1 (L:test H:operation usually)
29~31	LRCKOB,BCKOB,TXO	-	Non connect
32,33	$\overline{TEST2,3}$	I	Test input terminal (L:test H:operation usually)
34	RX	I	SPDIF input terminal
35	VSS	-	Ground terminal for digital circuit
36	$\overline{TSTSUB0}$	I	Test sub input terminal 0 (L:test H:operation usually)
37	FCONT	O	VCO Frequency control output terminal
38,39	$\overline{TSTSUB1,TSTSUB2}$	I	Test sub input terminal 1,2 (L:test H:operation usually)
40	PDO	O	Phase error signal output terminal
41	VDDA	-	Power supply for analog circuit
42	PLON	I	Clock selection input terminal (L:external clock H:VCO clock)
43	AMPI	I	AMP.input terminal for LPF
44	AMPO	O	AMP.output terminal for LPF
45	CKI	I	External clock input terminal
46	VSSA	-	Ground terminal for analog circuit
47	CKO	O	DIR Clock output terminal
48	LOCK	O	VCO Lock detection output terminal
49	VSS	-	Ground terminal for digital circuit
50	$\overline{WR}$	O	External SRAM writing signal output terminal
51	$\overline{OE}$	O	External SRAM output enable signal output terminal
52	$\overline{CE}$	O	External SRAM chip enable signal output terminal
53	VDD	-	Power supply terminal for digital circuit
54~61	IO7~0	I/O	External SRAM data I/O terminal 7~0
62	VSS	-	Ground terminal for digital circuit
63~70	AD0~7	O	External SRAM address output terminal 0~7
71	VDD	-	Power supply terminal for digital circuit
72~80	AD8~16	O	External SRAM address output terminal 8~16
81	VSS	-	Ground terminal for digital circuit
82~89	PO0~7	O	General purpose output terminal 0~7
90	VDDDL	-	Power supply terminal for DLL
91	LPFO	O	LPF output terminal for DLL
92,93	DLON,DLCKS	I	Refer to the undermentioned table
94	SCKO	-	Non connect
95	VSSDL	-	Ground terminal for DLL
96	SCKI	I	External system clock input terminal
97	VSSX	-	Ground termonal for oscillation circuit
98,99	XO,XI	I/O	Oscillation I/O terminal
100	VDDX	-	Power supply terminal for oscillation circuit

DLCKS terminal	DLONterminal	DLL clock setting
L	L	SCKI input (DLL circuit OFF)
L	H	Four times XI clock
H	L	Three times XI clock
H	H	Six times XI clock

■ UPD784215AGC103 (IC671) : UNIT CPU

1.Pin layout



2.Pin function

Pin No.	Symbol	I/O	Function
1~8		-	Non connect
9	VDD	-	Power supply terminal
10	X2	O	Connecting the crystal oscillator for system main clock
11	X1	I	Connecting the crystal oscillator for system main clock
12	VSS	-	Connect to GND
13	XT2	O	Connecting the crystal oscillator for system sub clock
14	XT1	I	Connecting the crystal oscillator for system sub clock
15	$\overline{\text{RESET}}$	I	System reset signal input
16	$\overline{\text{AUTODATA}}$	I	Output of DSP to general-purpose port
17	LOCK	I	Output of DSP to general-purpose port
18	DIGITAL0	I	Output of DSP to general-purpose port
19	FORMAT	I	Output of DSP to general-purpose port
20	CHANNEL	I	Output of DSP to general-purpose port
21	ERR	I	Output of DSP to general-purpose port
22	$\overline{\text{RSTDET}}$	I	Reset signal input
23	AVDD	-	Power supply terminal
24	AVREF0	-	Connect to GND
25~32		-	Connect to GND
33	AVSS	-	Connect to GND
34,35		-	Non connect
36	AV REF1	-	Power supply terminal
37,38	RX,TX	-	Not use
39		-	Non connect
40	DSPCOM	I	Communication port from IC701
41	DSPSTS	O	Status communication port to IC701
42	$\overline{\text{DSPCLK}}$	I	Clock input from IC701
43	DSPRDY	I	Ready signal input from IC701
44		-	Non connect
45,46	MIDIO_IN/OUT	I/O	Interface I/O terminal with microcomputer
47	$\overline{\text{MICK}}$	O	Interface I/O terminal with microcomputer of clock signal
48	$\overline{\text{MICS}}$	O	Interface I/O terminal with microcomputer of chip select
49	$\overline{\text{MILP}}$	O	Interface I/O termonal with microcomputer
50	$\overline{\text{MIACK}}$	O	Interface I/O termonal with microcomputer
51,52		-	Non connect
53	$\overline{\text{DSPRST}}$	O	Reset signal output of DSP
54~63		-	Non connect
64,65	CDTI/CDTO	I/O	Interface I/O terminal with microcomputer
66	$\overline{\text{CCLK}}$	O	Interface I/O terminal with microcomputer of clock signal
67	$\overline{\text{CS}}$	O	Interface I/O terminal with microcomputer of chip select
68	XTS	O	OSC Select
69,70		-	Non connect
71	$\overline{\text{PD}}$	O	Reset signal output
72	GND	-	Connect to GND
73~80		-	Non connect
81	VDD	-	Power supply
82	$\overline{\text{3D-ON}}$	-	Non connect
83	3D-ON	O	Switch at output destination of surround channel
84	ANA/T-TONE	O	Test tone control
85	REF-MIX	O	Control at output destination of LFE channel
86		-	Non connect
87	D.MUTE	O	Mute of the digital out terminal is controlled
88	$\overline{\text{S.MUTE}}$	O	Mute of the audio signal is controlled
89		-	Non connect
90~93	ASW1~4	O	Selection of digital input selector
94	TEST	-	Test terminal
95~100		-	Non connect

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO & COMMUNICATION BUSINESS DIVISION
PERSONAL & MOBILE NETWORK BUSINESS UNIT. 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

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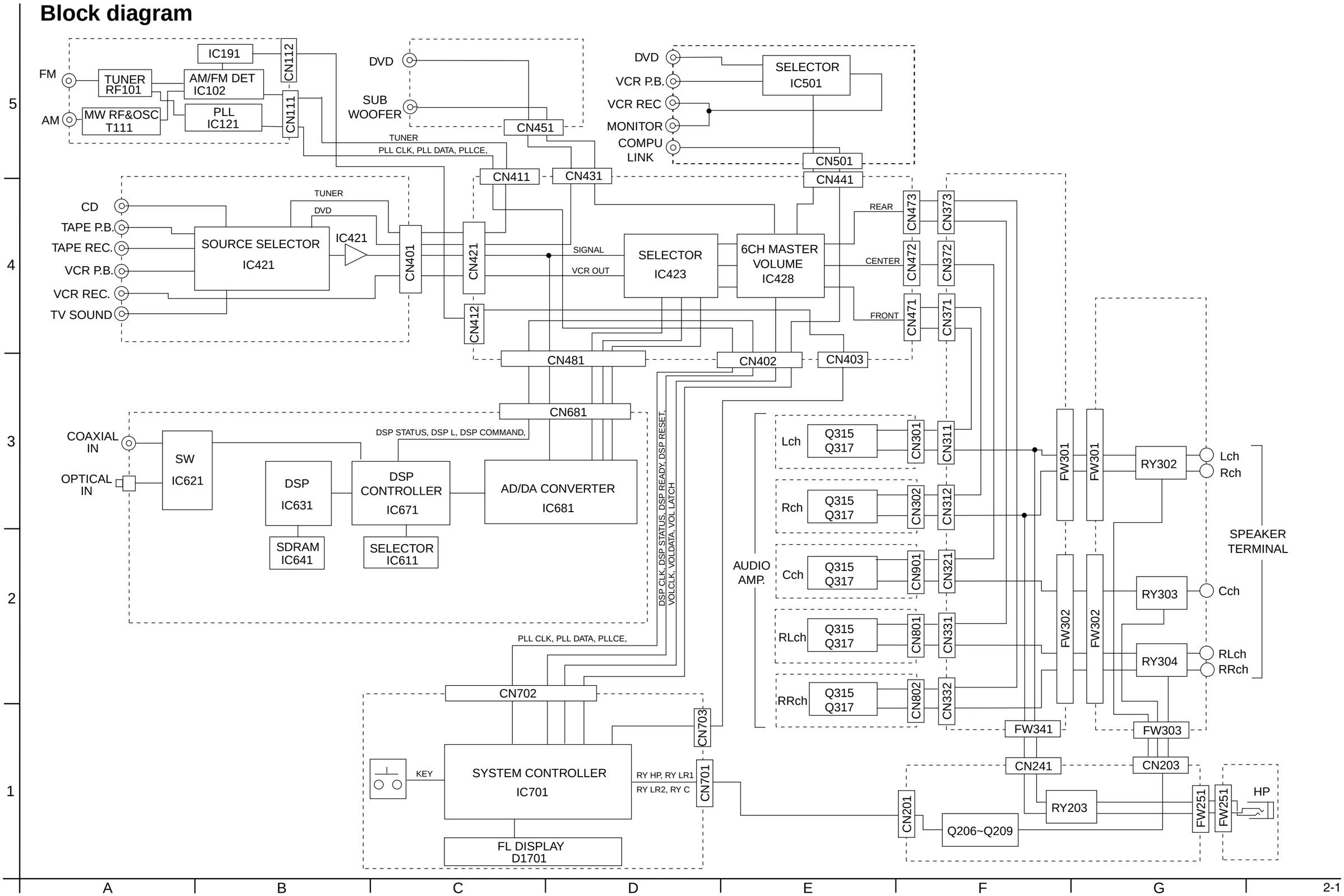
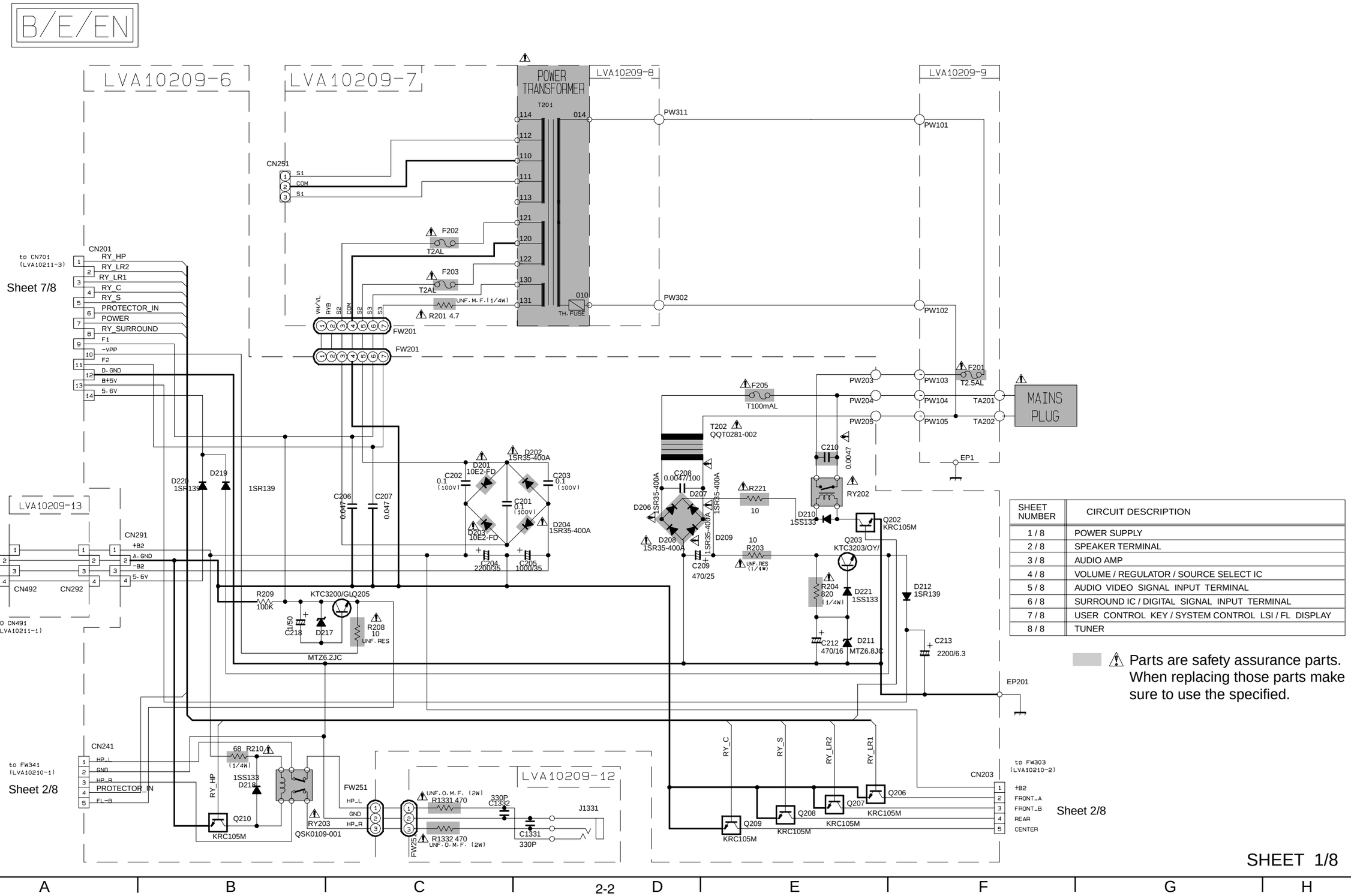
200104(V)

Block diagram



Standard schematic diagrams

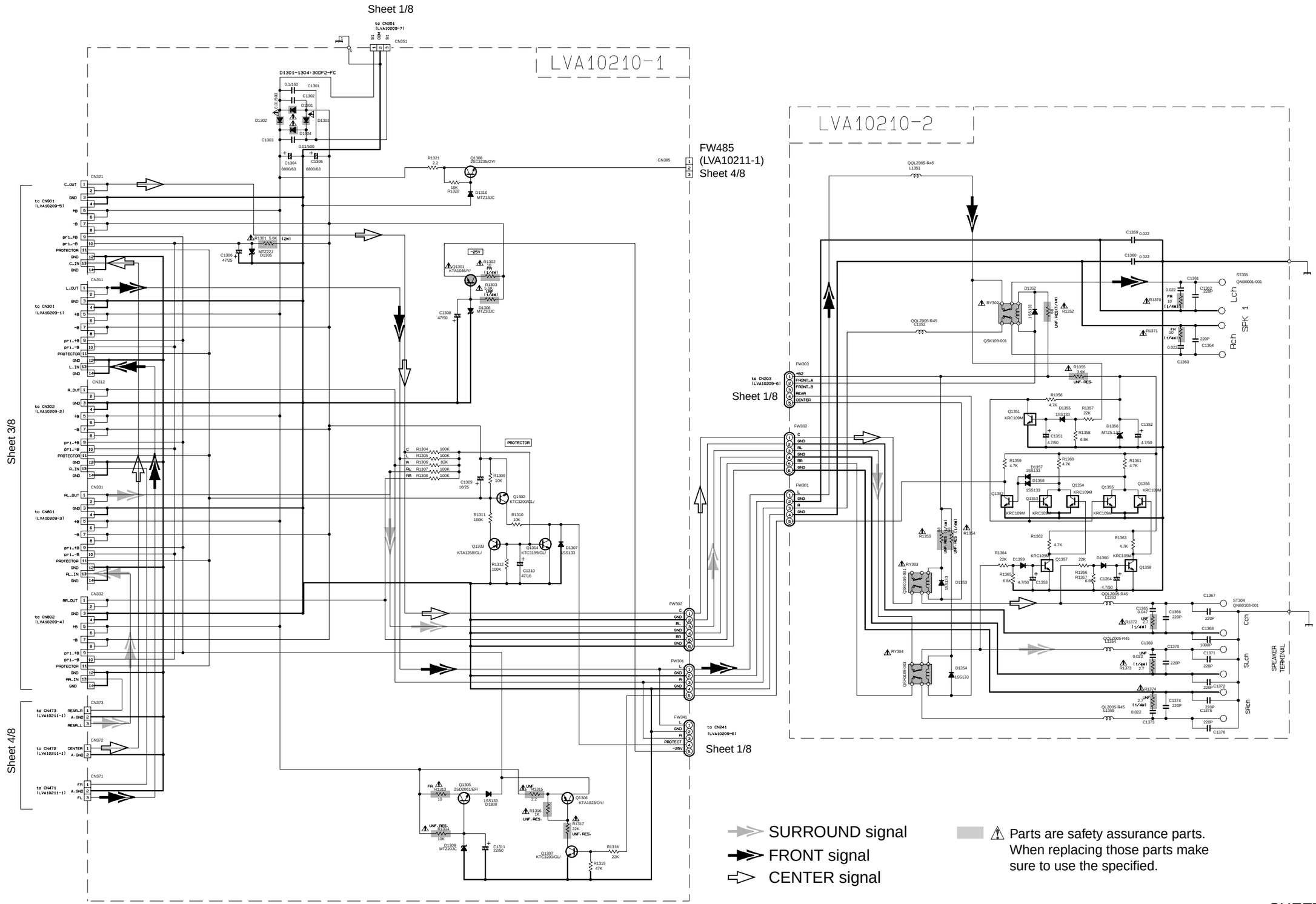
■ Power supply section



SHEET NUMBER	CIRCUIT DESCRIPTION
1 / 8	POWER SUPPLY
2 / 8	SPEAKER TERMINAL
3 / 8	AUDIO AMP
4 / 8	VOLUME / REGULATOR / SOURCE SELECT IC
5 / 8	AUDIO VIDEO SIGNAL INPUT TERMINAL
6 / 8	SURROUND IC / DIGITAL SIGNAL INPUT TERMINAL
7 / 8	USER CONTROL KEY / SYSTEM CONTROL LSI / FL DISPLAY
8 / 8	TUNER

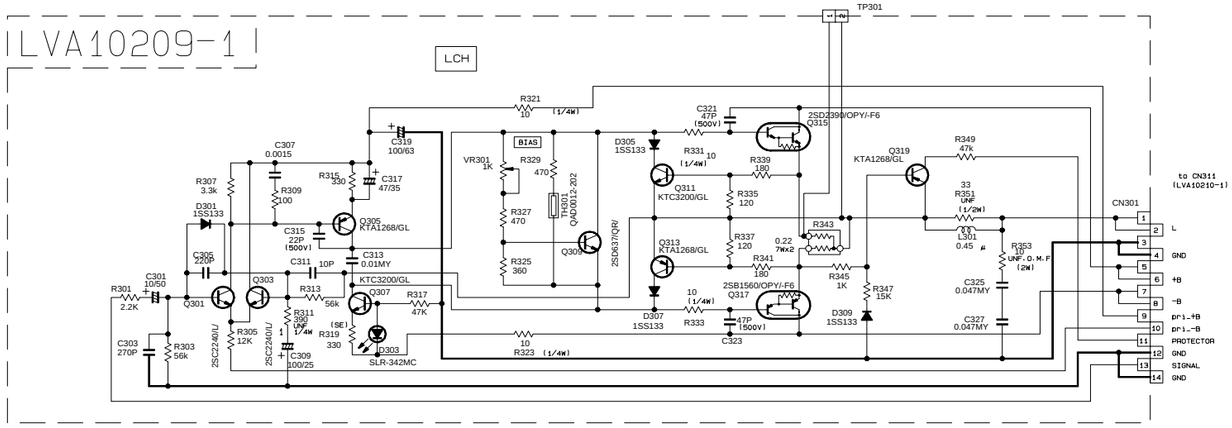
⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified.

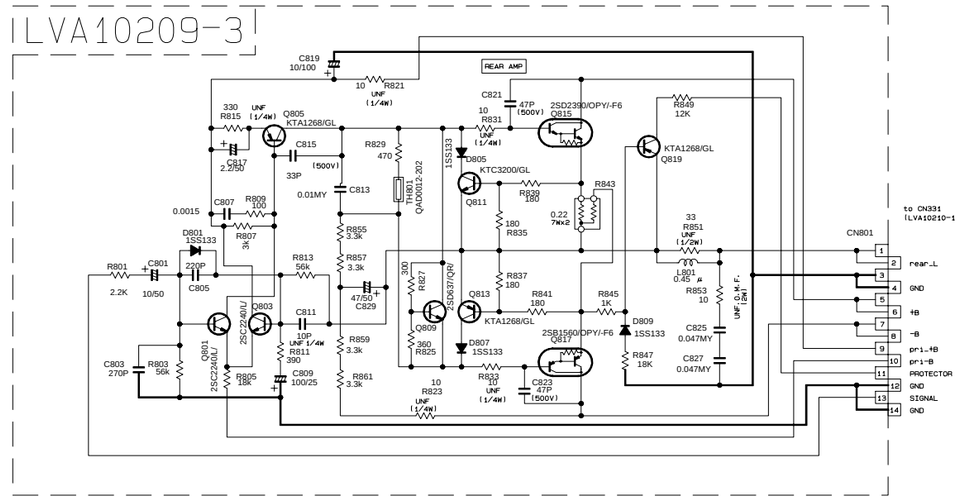
■ Audio & Speaker terminal section

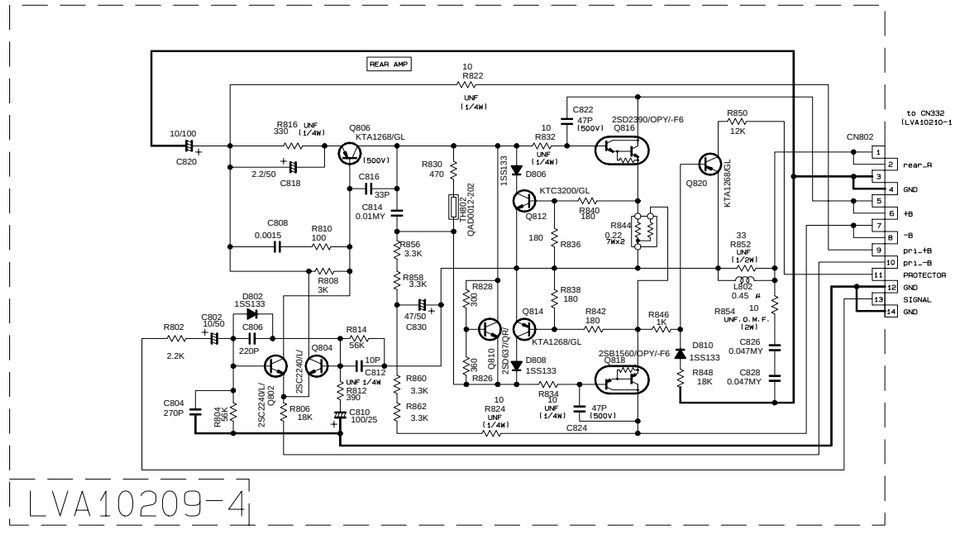


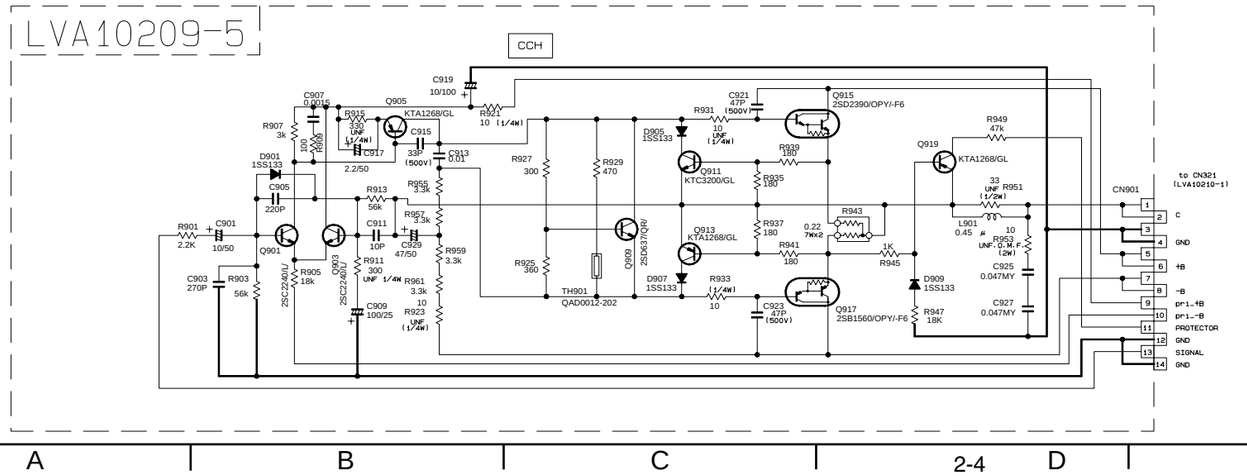
SHEET 2/8

■ Audio amplirier section



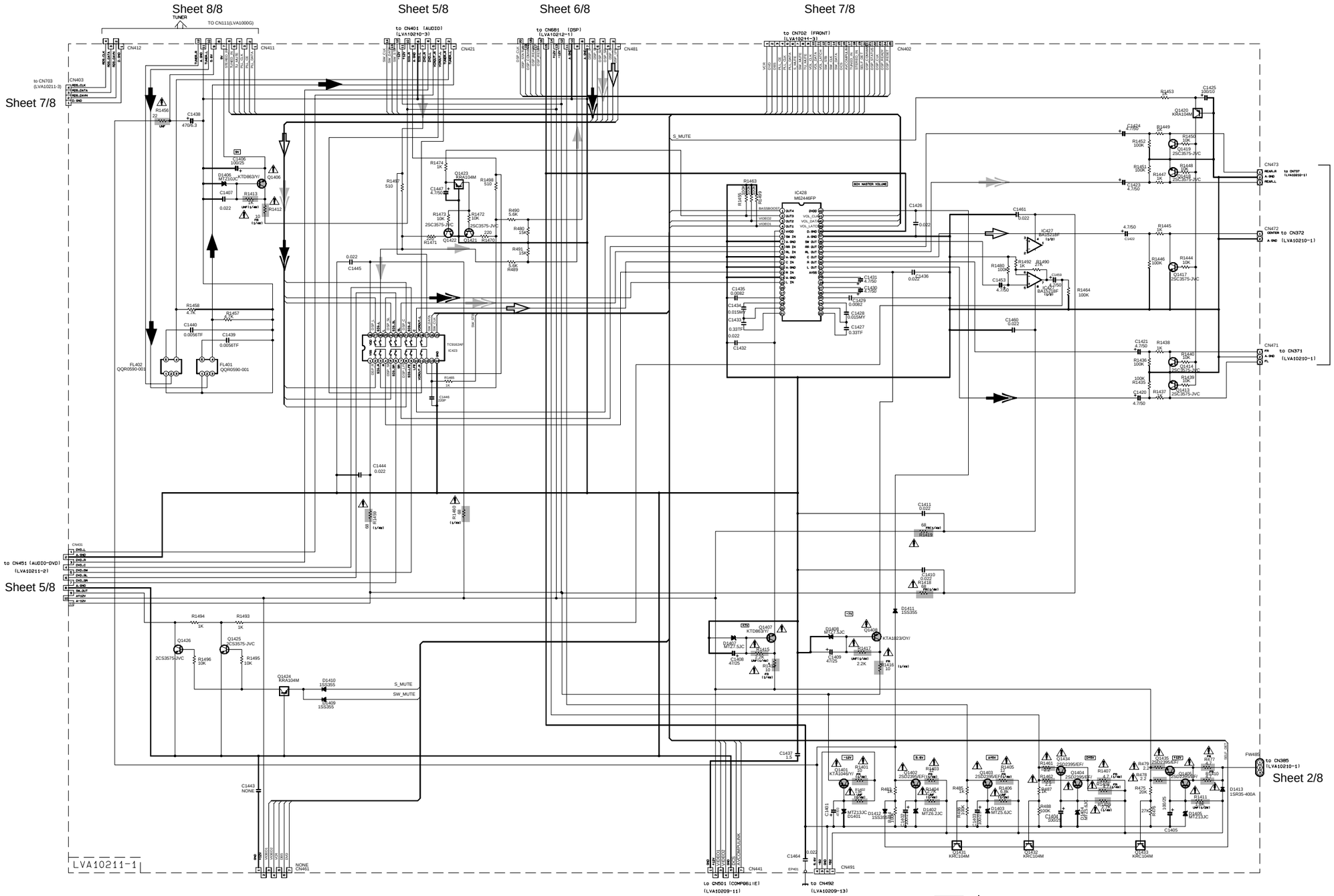






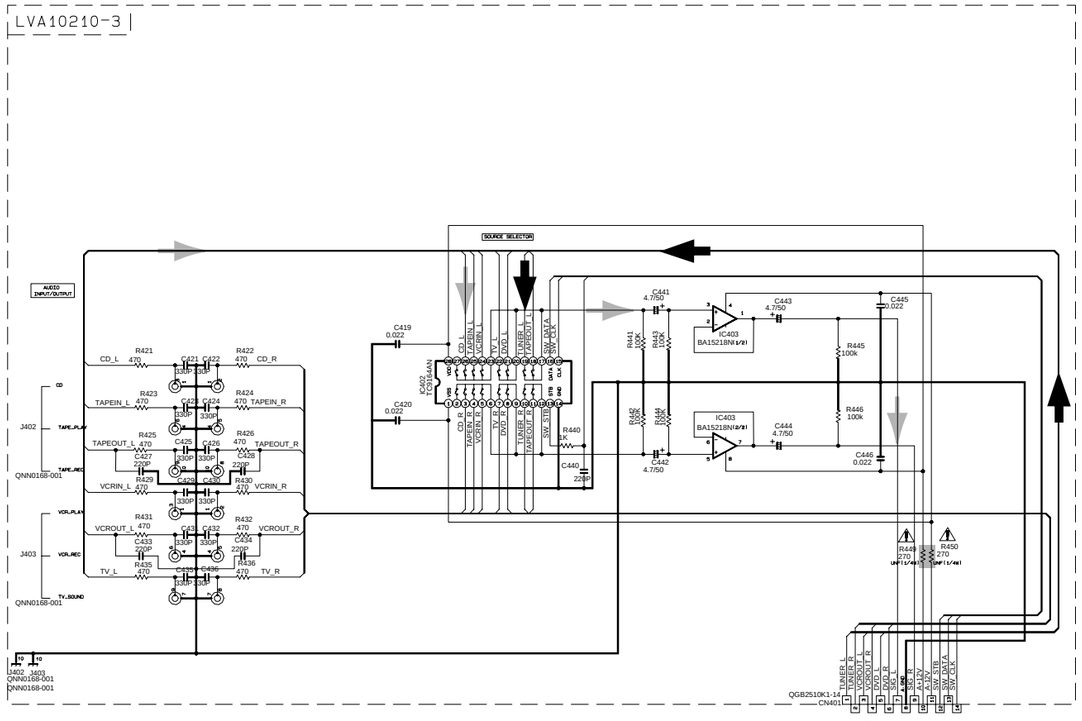
Parts are safety assurance parts. When replacing those parts make sure to use the specified.

■ Main section

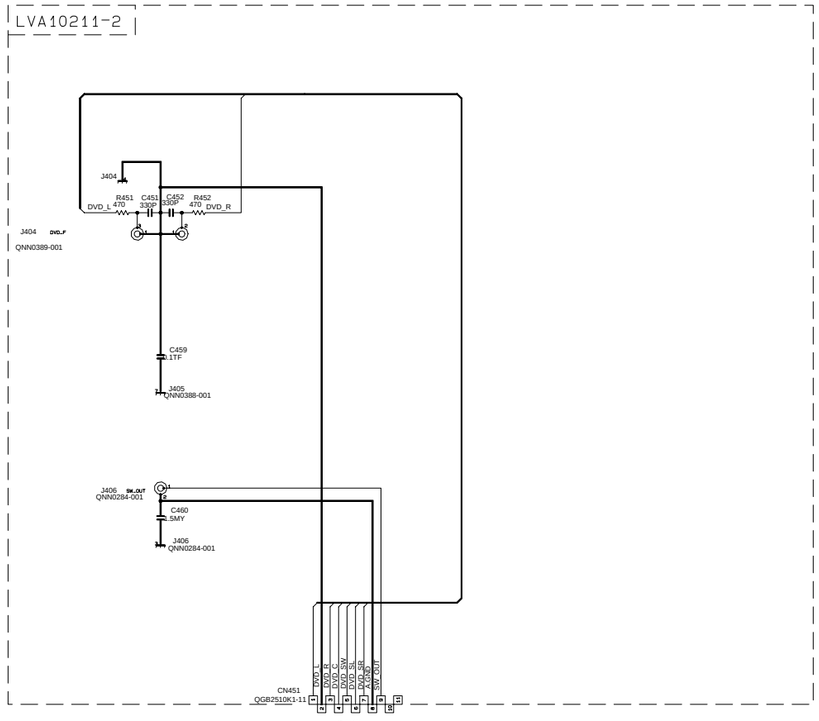


SHEET 4/8

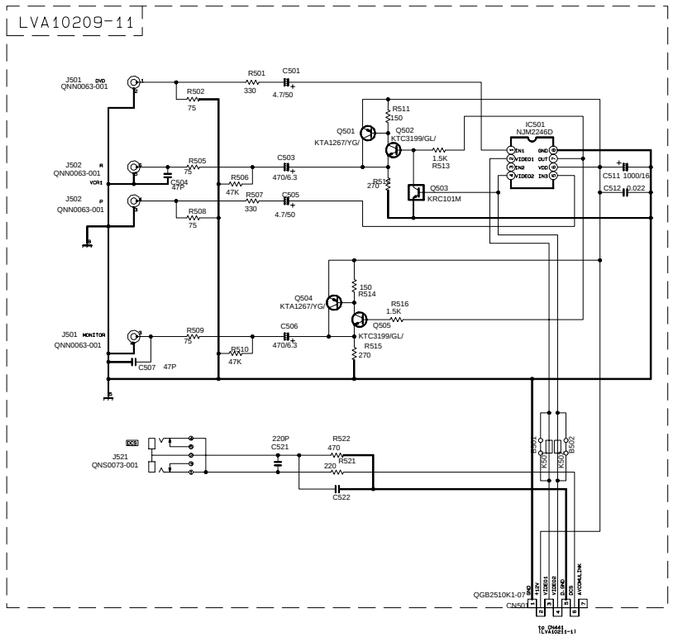
■ Audio / Video / DVD signal input section



Sheet 4/8



Sheet 4/8



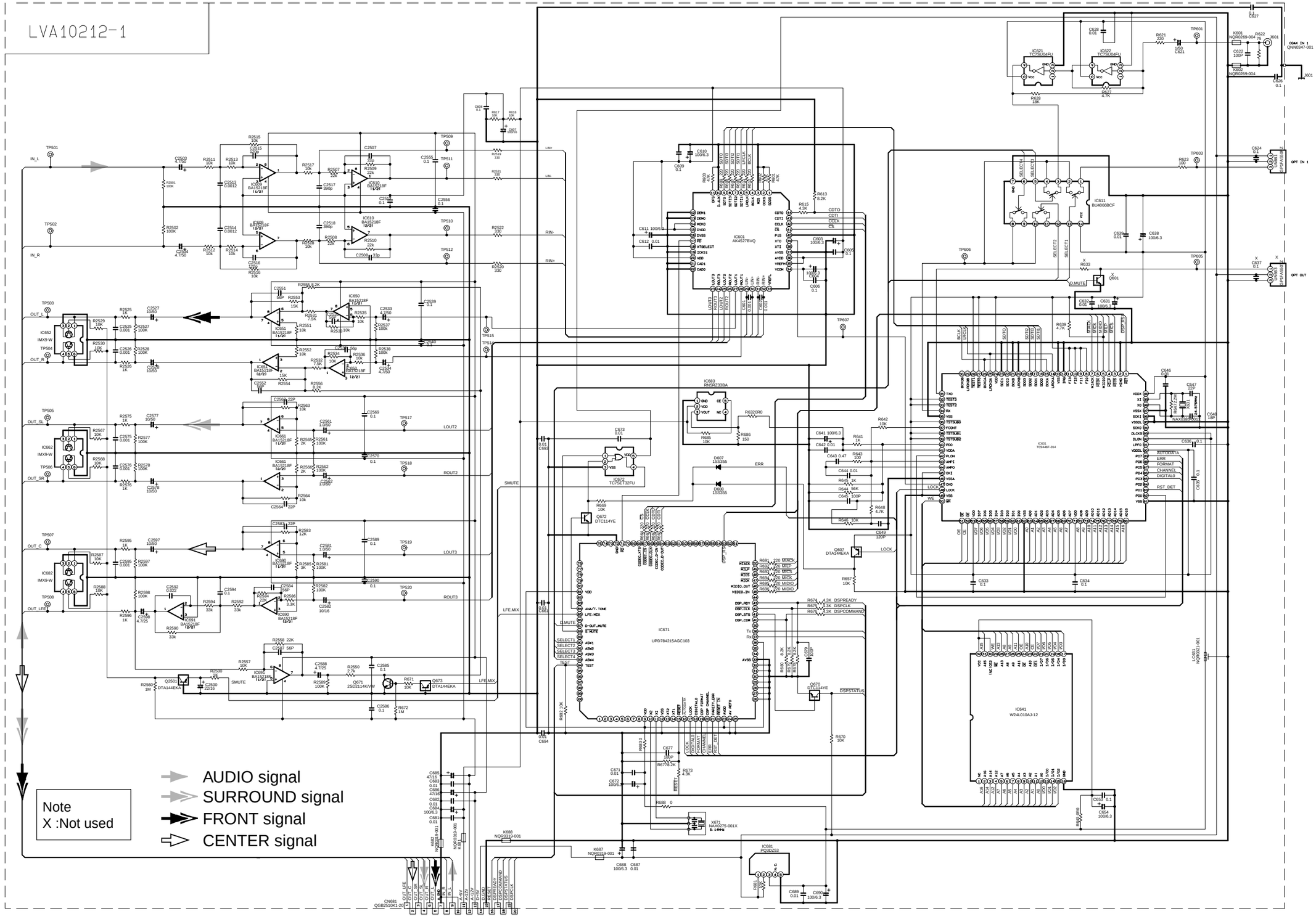
Sheet 4/8

AUDIO signal

TUNER signal

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified.

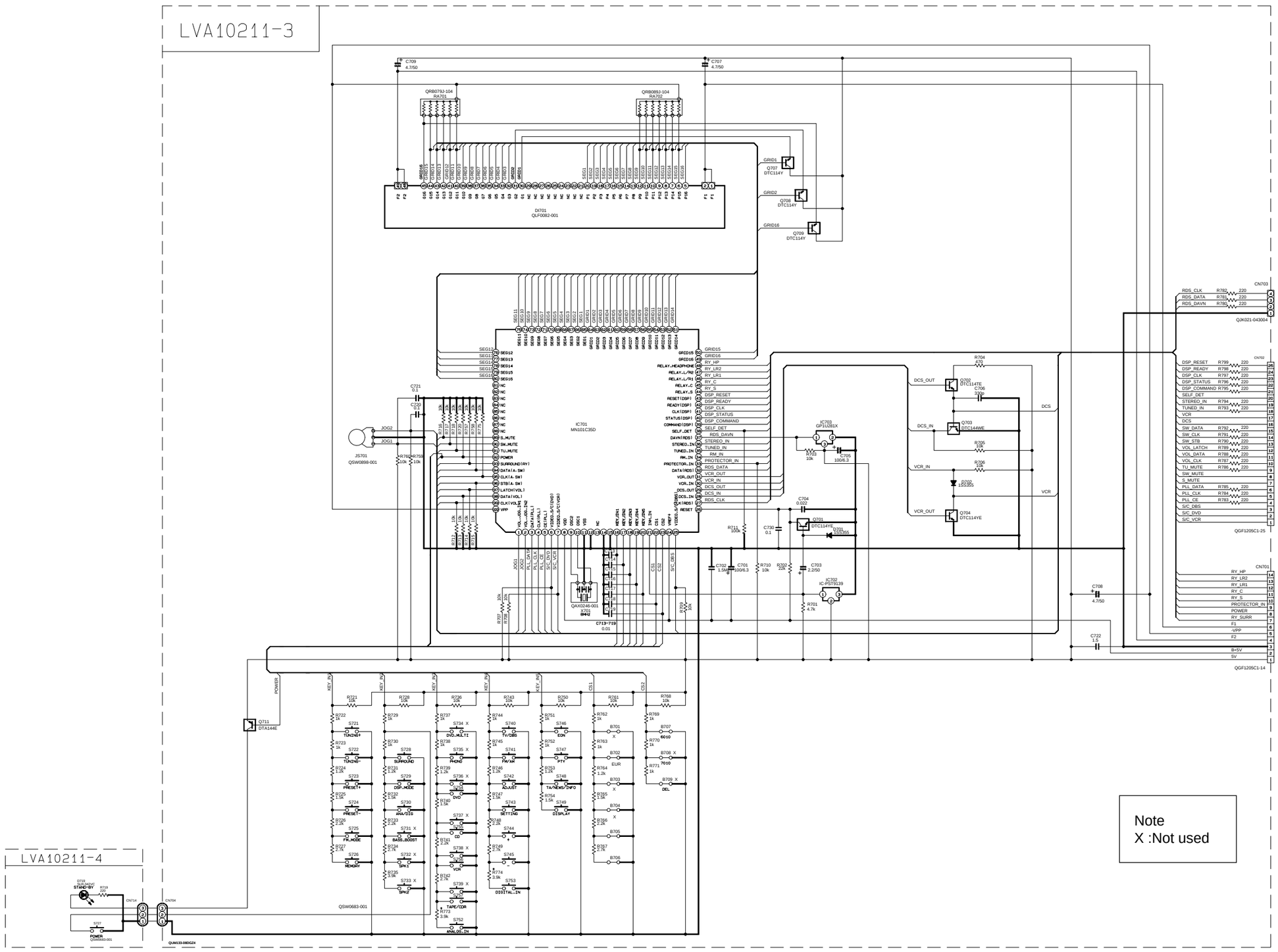
■ DSP section



Sheet 4/8

SHEET 6/8

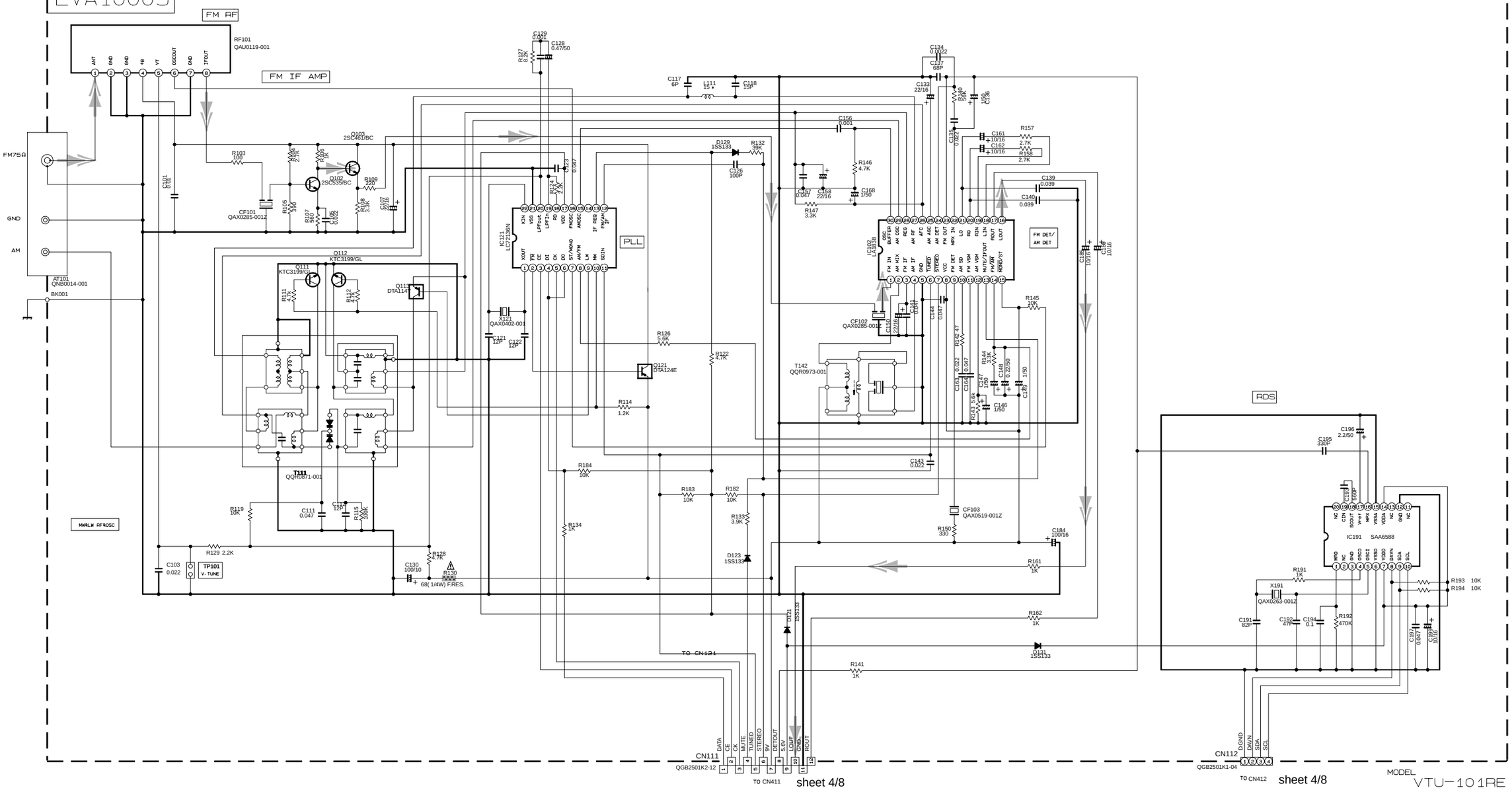
■ System control and FL displaying section



■ Tuner section

FOR E/EN/B (WITH RDS)

LVA10009



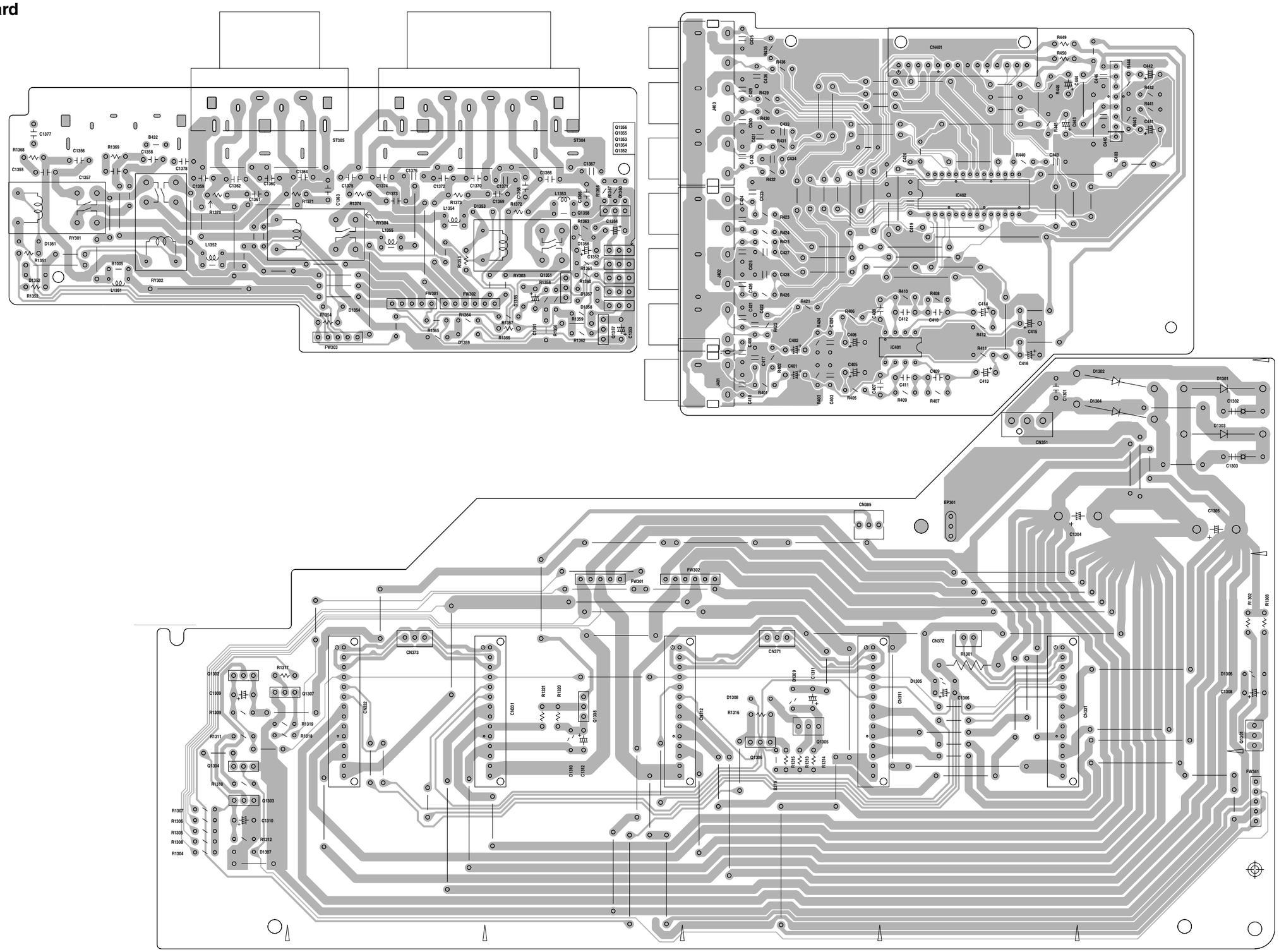
FM / Tuner signal

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

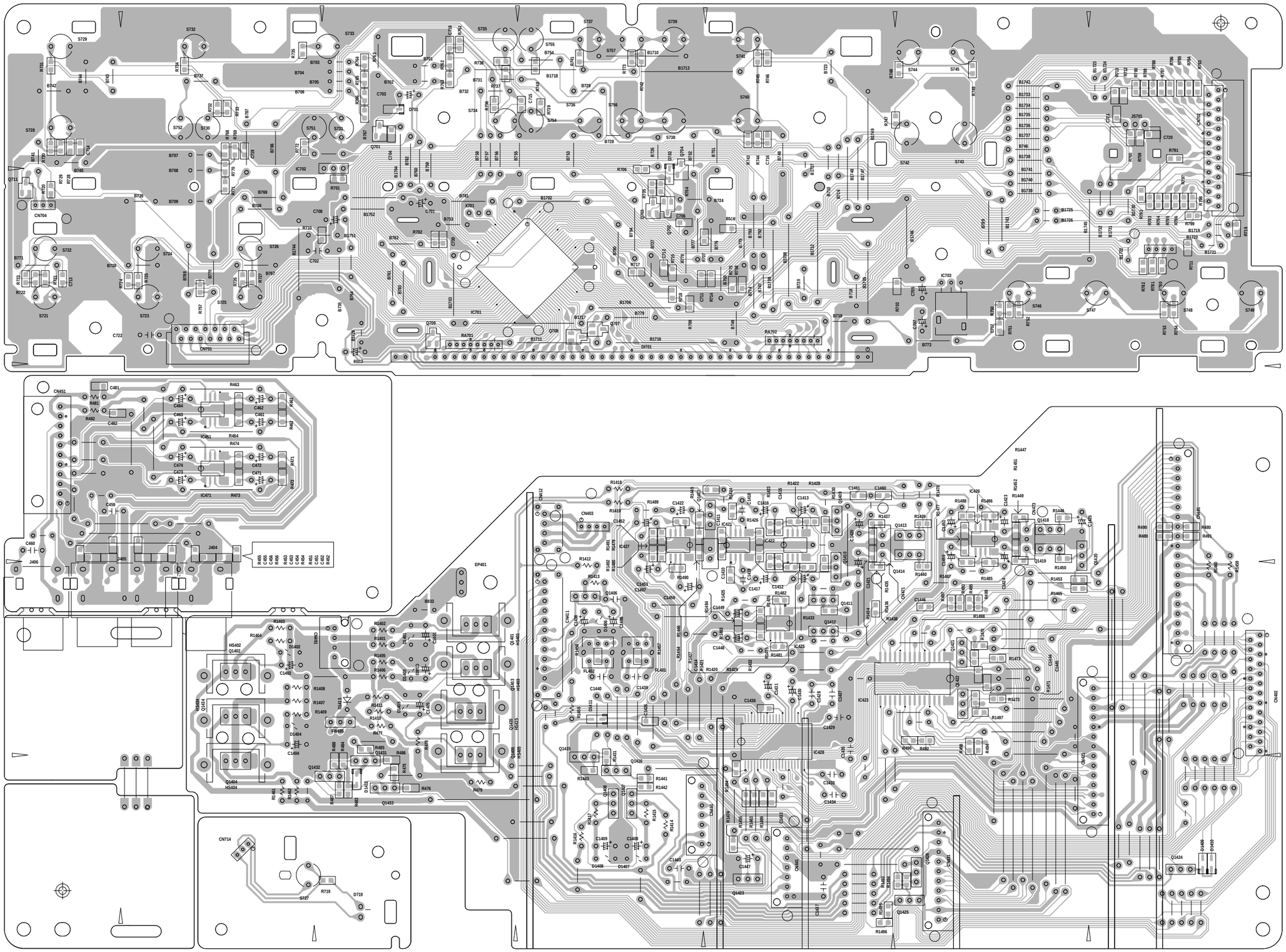
SHEET 8/8

Printed circuit boards

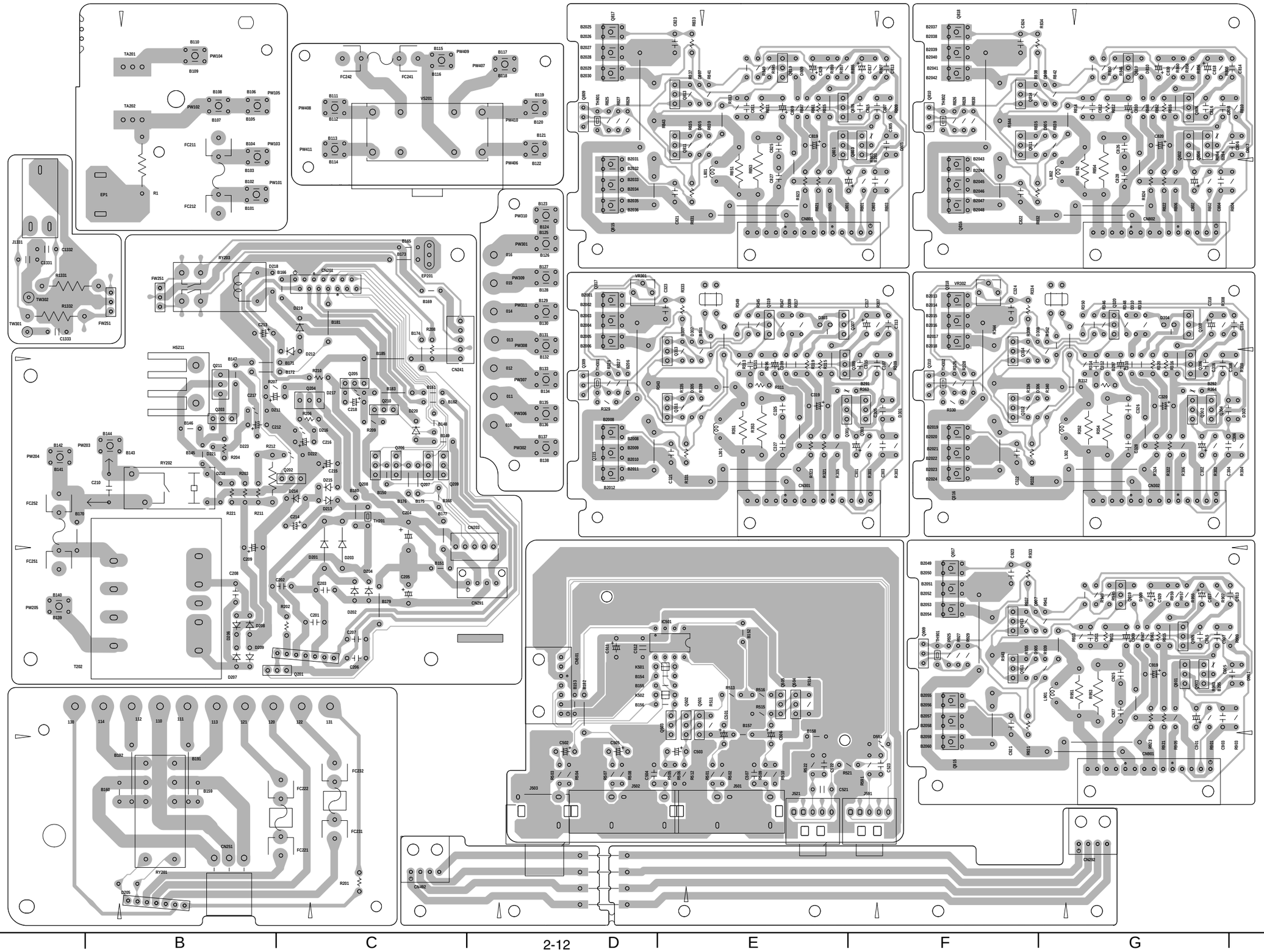
■ Main board



■System control & Audio board

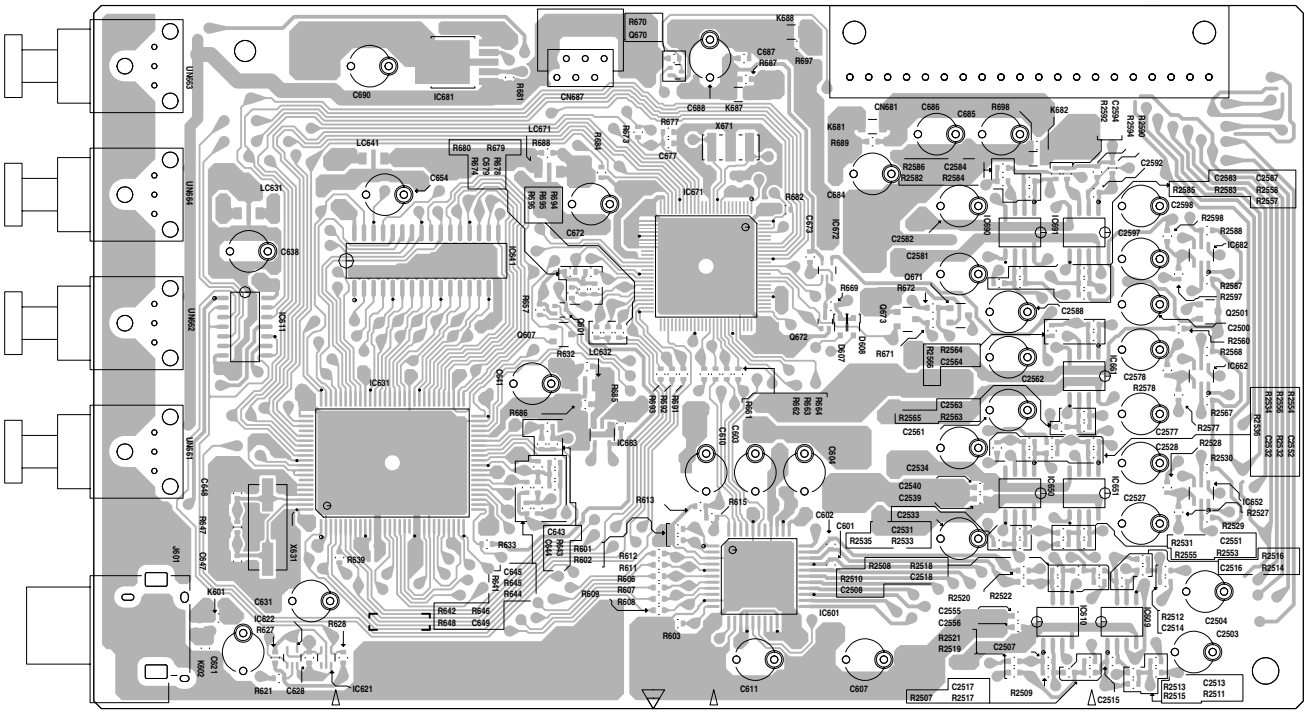


■Power amp. board

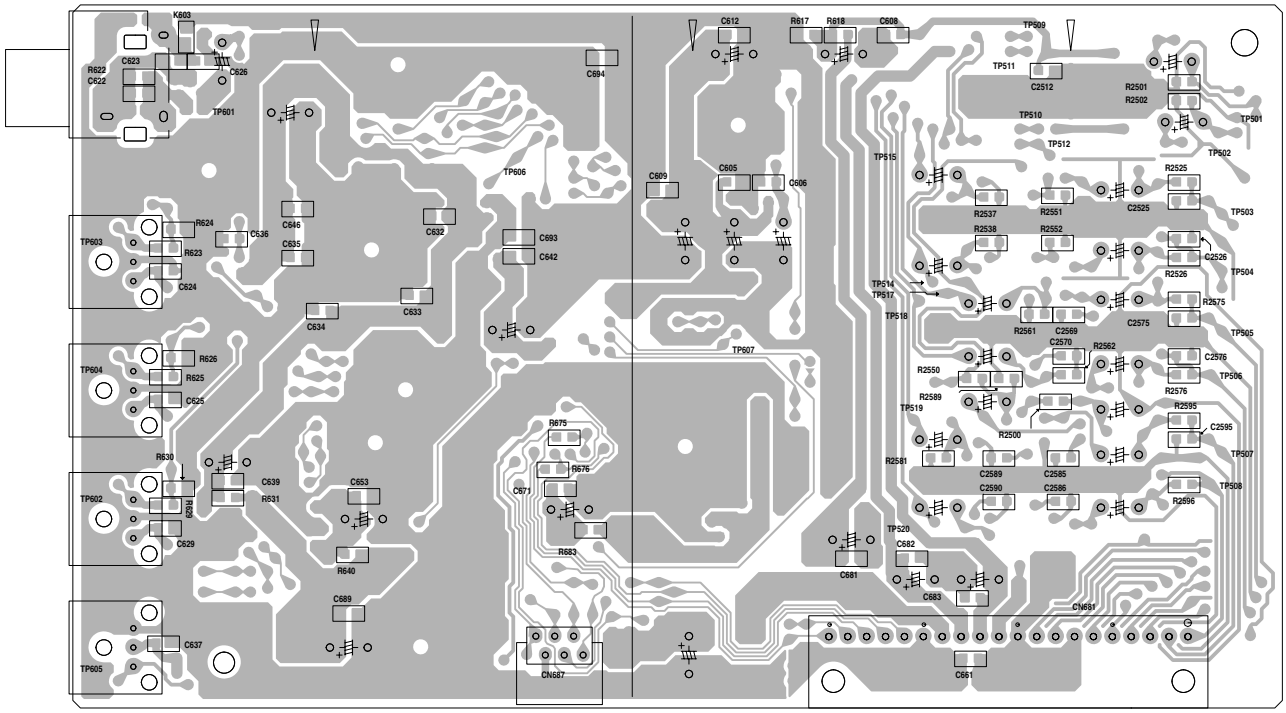


■ DSP board

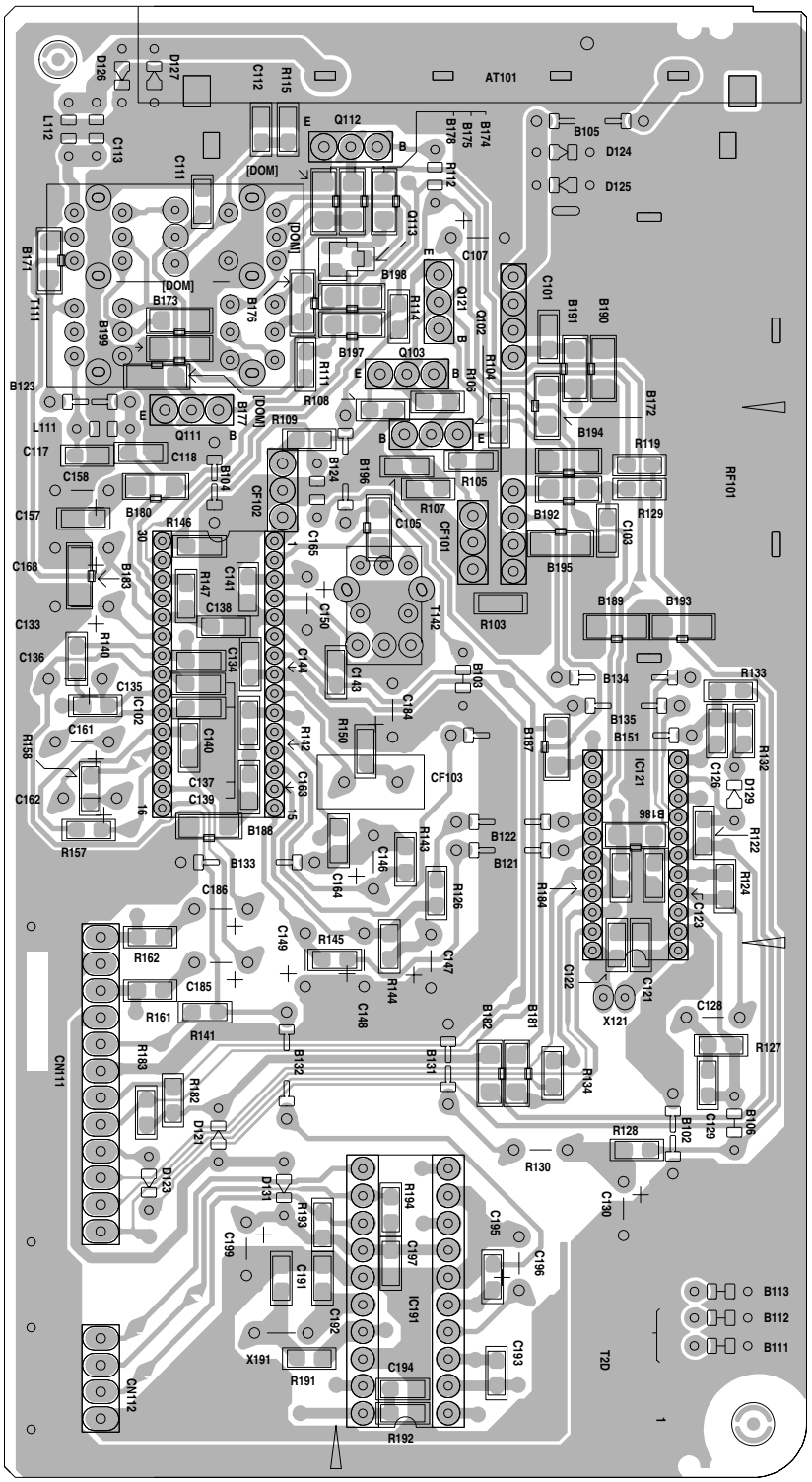
Forward side



Reverse side



■ Tuner board


AT101
Q112
Q113
Q121
Q103
Q111
[DOM]
B105
D124
D125
C107
C101
B191
B190
B172
B194
R119
RF101
B192
C103
B195
R129
B189
B193
B134
B135
B151
B187
IC121
B186
C126
D129
R192
R133
R122
R124
C123
C122
C121
X121
C128
R127
B106
B102
R128
R130
C130
B113
B112
B111
T2D
B188
B122
B121
B133
C186
R162
C185
R161
R141
R183
R182
D121
D123
CN111
CN112
C199
C191
C192
X191
R191
R193
D131
R194
C195
C196
C197
IC191
C193
C194
R192
B131
B132
B162
B161
R134
R184
C149
R145
C147
C148
R144
R126
C146
C164
R143
C184
R150
CF103
R142
C163
C150
C144
C143
T142
B103
C165
CF102
CF101
C105
R107
R105
R106
R104
R108
R109
R111
R114
B124
B196
B197
B198
B199
B173
B176
B177
B174
B175
B178
R112
C102
C113
C107
C111
C112
R115
D126
D127
L112
C113
B171
J111
L111
C117
C118
B104
C158
B160
R146
C157
C168
B163
C133
R140
C136
C135
IC102
C161
R158
C162
R157
C141
R147
C138
C134
C140
C137
C139
B123
30
1
15
16

PARTS LIST

[RX-6010RBK]
[RX-6012RSL]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix

B ---------- U.K.
E ---------- Continental Europe
EN ---------- Northern Europe

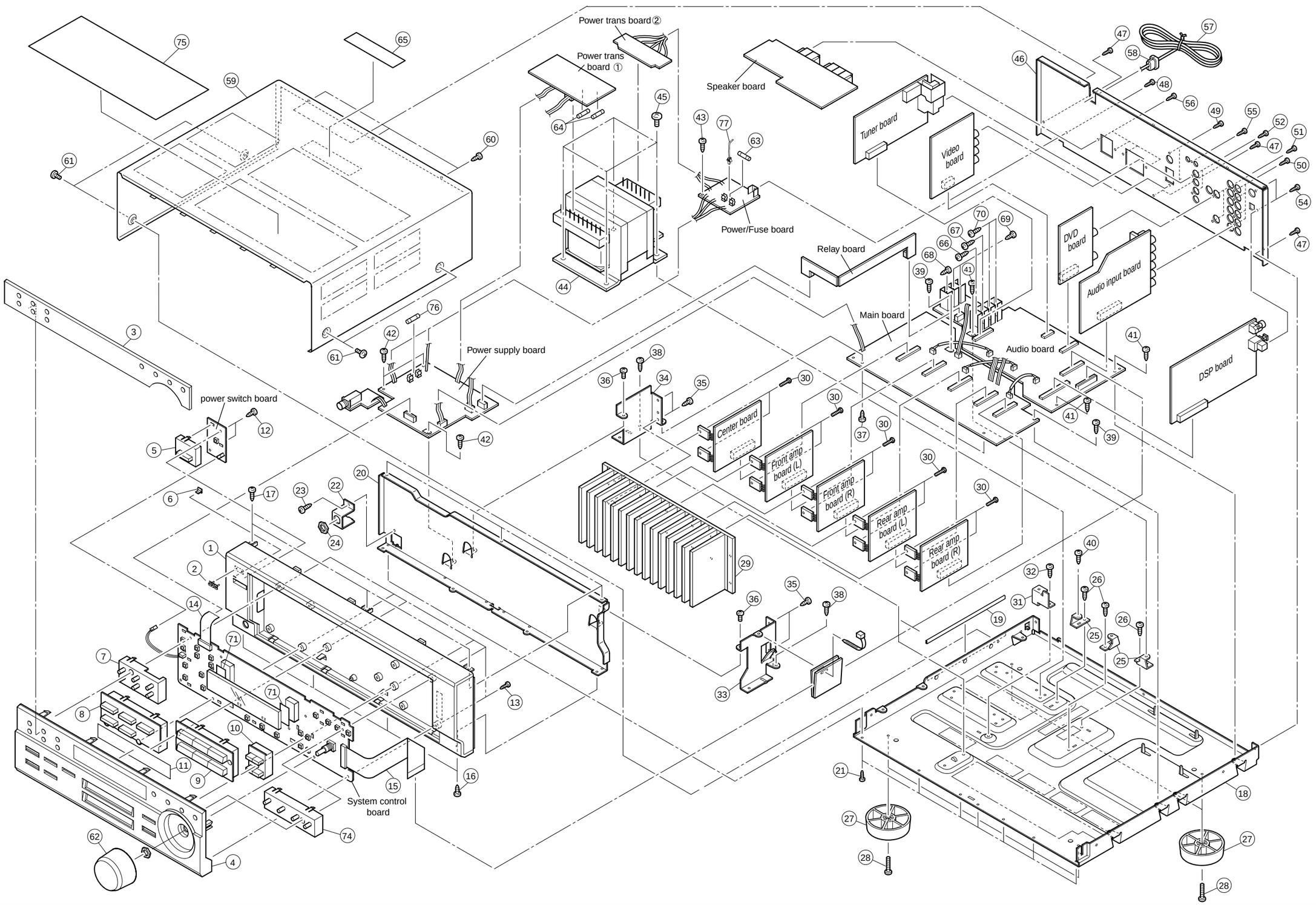
- Contents -

Exploded view of general assembly and parts list ---------- 3- 3
Electrical parts list ---------- 3- 5
Packing materials and accessories parts list ---------- 3-18

< MEMO >

Exploded view of general assembly and parts list

Block No. M 1 M M



■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	LV10457-009A	FRONT PANEL	1	RX-6010RBK	
		LV10457-010A	FRONT PANEL	1	RX-6012RSL	
	2	VJD5429-002SS	JVC MARK	1	RX-6012RSL	
		VJD5429-001SS	JVC MARK	1	RX-6010RBK	
	3	LV20950-002A	LENS	1		
	4	LV10459-004A	SUB PANEL	1	RX-6012RSL	
		LV10459-003A	SUB PANEL	1	RX-6010RBK	
	5	LV32431-004A	POWER BUTTON	1	RX-6010RBK	
		LV32431-002A	POWER BUTTON	1	RX-6012RSL	
	6	LV42096-001A	INDICATOR	1	POWER	
	7	LV20951-001A	PUSH BUTTON	1	TUNER	
	8	LV20919-004A	PUSH BUTTON(C)	1	RX-6012RSL	
		LV20919-003A	PUSH BUTTON	1	RX-6010RBK	
	9	LV20918-001A	PUSH BUTTON	1	RX-6010RBK	
		LV20918-002A	PUSH BUTTON(E)	1	RX-6012RSL	
	10	LV32430-002A	PUSH BUTTON(F)	1	RX-6012RSL	
		LV32430-001A	PUSH BUTTON	1	RX-6010RBK	
	11	LV42095-001A	FL SCREEN	1		
	12	QYSBSF2610Z	SCREW	2	FRONT C.B	
	13	QYSBSF2610Z	SCREW	6	FRONT C.B FL	
	14	QUQ412-1415CJ	FFC WIRE	1		
	15	QUQ412-2538CJ	FFC WIRE	1		
	16	QYSDSG3006Z	SCREW	4	FRONT D	
	17	QYSBSG3006Z	T.SCREW	3	FRONT U	
	18	LV10019-003A	CHASSIS BASE	1		
	19	EXO150010H09S11	FELT SPACER	1	FOR C.BASE	
	20	LV10458-002A	FRONT BRACKET	1		
	21	QYSDSG3006Z	SCREW	7	C.B-F.B	
	22	LV42094-002A	H.P. BKT	1		
	23	QYSBSG3006Z	T.SCREW	1	H.P BKT-F.B	
	24	VKZ4150-001	SPECIAL NUT	1		
	25	E68587-223SM	CB BKT	3		
	26	QYSBST3006Z	T.SCREW	3	C.B-BKT	
	27	QZF6018-001	FOOT	4	RX-6010RBK	
		QZF6018-003	FOOT	4	RX-6012RSL	
	28	QYSBST3010Z	T.SCREW	4	FOOT	
	29	LV20916-002A	HEAT SINK	1		
	30	E73525-003SS	SCREW	10	TR	
	31	LV42098-001A	C.B BKT	1	PRI/SEC C.B	
	32	QYSBST3006Z	T.SCREW	1	C.B BKT	
	33	LV32433-001A	H.S BRACKET(R)	1		
	34	LV32434-001A	H.S BRACKET(L)	1		
	35	QYSBSG3008Z	T.SCREW	4	H.S-BKT	
	36	QYSBSG3006Z	T.SCREW	2	H.S BKT-F.BKT	
	37	QYSBSG3006Z	T.SCREW	2	H.S BKT	
	38	QYSBST3006Z	T.SCREW	2	H.S BKT-CHASSIS	
	39	QYSBSG3006Z	T.SCREW	2	M.C.B	
	40	E65923-003	TAPPING SCREW	1	M.C.B	

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	41	QYSBSG3006Z	T.SCREW	3	H.S-C.B	
	42	QYSBSG3006Z	T.SCREW	3	P.C.B-CHASSIS	
	43	QYSBSG3006Z	T.SCREW	1	C.B-CHASSIS	
⚠	44	QQT0316-001	POWER TRANSF	1	TAMURA	
	45	QYSDSTL4008Z	SPECIAL SCREW	4	P.TRANS	
	46	LV20915-009A	REAR PANEL	1	RX-6010RBK	
		LV20915-010A	REAR PANEL	1	RX-6012RSL	
	47	QYSBSGY3008M	SPECIAL SCREW	3	R.P-C.BASE	
	48	QYSBSGY3008M	SPECIAL SCREW	1	R.P-ud---	
	49	QYSBSGY3008M	SPECIAL SCREW	2	TUNER	
	50	QYSBSGY3008M	SPECIAL SCREW	4	INPUT	
	51	QYSBSGY3008M	SPECIAL SCREW	2	V AUDIO	
	52	QYSBSGY3008M	SPECIAL SCREW	2	VIDEO	
	54	QYSBSGY3008M	SPECIAL SCREW	2	DIGITAL	
	55	QYSBSGY3008M	SPECIAL SCREW	1	COMP C.B	
	56	QYSBSGY3008M	SPECIAL SCREW	4	SPK C.B	
⚠	57	QMPN100-200-JD	POWER CORD	1		B
		QMPK150-200-JD	POWER CORD	1		
⚠	58	QZW0033-001	STRAIN RELIEF	1		
	59	LE20131-011A/S/	TOP COVER	1	RX-6012RSL	
		LE20131-010A/S/	TOP COVER	1	RX-6010RBK	
	60	QYSBSGY3008M	SPECIAL SCREW	3		
	61	E406308-003	SPECIAL SCREW	4	RX-6010RBK	
		E406308-004	SPECIAL SCREW	4	RX-6012RSL	
	62	LV32435-003A	VOLUME KNOB	1	RX-6010RBK	
		LV32435-004A	VOLUME KNOB	1	RX-6012RSL	
⚠	63	QMF51E2-2R5-J1	FUSE	1	F201	
⚠	64	QMF51E2-2R0-J1	FUSE	2	F202 F203	
	65	E409396-001	CAUTION LABEL	1		
	66	QYSBSG3008E	T.SCREW	1		
	67	QYSBSG3008E	T.SCREW	1		
	68	QYSBSG3008E	T.SCREW	1		
	69	QYSBSG3008E	T.SCREW	2		
	70	QYSBSG3008E	T.SCREW	2		
	71	LV30225-097A	SPACER	2		
	74	LV20952-001A	PUSH BUTTON	1	RDS	
	75	LV30077-003A	PROTECT SHEET	1	RX-6012RSL	
		LV30077-001A	PROTECT SHEET	1	RX-6010RBK	
⚠	76	QMF51E2-R10-J1	FUSE 90	1	F205	
	77	E307572-001	FASTENER	1		

■ **Electrical parts list (Power amp board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 201	QFLC2AJ-104Z	M CAPACITOR	.10MF 5% 100V	
	C 202	QFLC2AJ-104Z	M CAPACITOR	.10MF 5% 100V	
	C 203	QFLC2AJ-104Z	M CAPACITOR	.10MF 5% 100V	
	C 204	QETM1VM-228	E CAPACITOR	2200MF 20% 35V	
	C 205	QETM1VM-108	E CAPACITOR	1000MF 20% 35V	
	C 206	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 207	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 208	QFLC2AJ-472Z	M CAPACITOR	4700PF 5% 100V	
	C 209	QETN1EM-477Z	E CAPACITOR	470MF 20% 25V	
⚠	C 210	QCZ9104-472	C CAPACITOR	4700PF	
	C 212	QETN1CM-477Z	E CAPACITOR	470MF 20% 16V	
	C 213	QETM0JM-228	E CAPACITOR	2200MF 20% 6.3V	
	C 218	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 221	QCS31HJ-471Z	C CAPACITOR	470PF 5% 50V	
	C 301	QEHR1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 302	QEHR1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 303	QCS31HJ-271Z	C CAPACITOR	270PF 5% 50V	
	C 304	QCS31HJ-271Z	C CAPACITOR	270PF 5% 50V	
	C 305	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C 306	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C 307	QCB31HK-152Z	C CAPACITOR	1500PF 10% 50V	
	C 308	QCB31HK-152Z	C CAPACITOR	1500PF 10% 50V	
	C 309	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 310	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 311	QCS31HJ-100Z	C CAPACITOR	10PF 5% 50V	
	C 312	QCS31HJ-100Z	C CAPACITOR	10PF 5% 50V	
	C 313	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 314	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 315	QCS32HJ-220Z	C CAPACITOR	22PF 5% 500V	
	C 316	QCS32HJ-220Z	C CAPACITOR	22PF 5% 500V	
	C 317	QEHR1VM-476Z	E CAPACITOR	47MF 20% 35V	
	C 318	QEHR1VM-476Z	E CAPACITOR	47MF 20% 35V	
	C 319	QETN1JM-107Z	E CAPACITOR	100MF 20% 63V	
	C 320	QETN1JM-107Z	E CAPACITOR	100MF 20% 63V	
	C 321	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 322	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 323	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 324	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 325	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 326	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 327	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 328	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 501	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 503	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 504	QCS31HJ-470Z	C CAPACITOR	47PF 5% 50V	
	C 505	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 506	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 507	QCS31HJ-470Z	C CAPACITOR	47PF 5% 50V	
	C 511	QETN1CM-108Z	E CAPACITOR	1000MF 20% 16V	
	C 512	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	C 521	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 522	QCZ0202-155Z	ML C CAPCITOR	1.5MF	
	C 801	QEHR1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 802	QEHR1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 803	QCS31HJ-271Z	C CAPACITOR	270PF 5% 50V	
	C 804	QCS31HJ-271Z	C CAPACITOR	270PF 5% 50V	
	C 805	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C 806	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C 807	QCB31HK-152Z	C CAPACITOR	1500PF 10% 50V	
	C 808	QCB31HK-152Z	C CAPACITOR	1500PF 10% 50V	
	C 809	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 810	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 811	QCS31HJ-100Z	C CAPACITOR	10PF 5% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C 812	QCS31HJ-100Z	C CAPACITOR	10PF 5% 50V	
	C 813	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 814	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 815	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V	
	C 816	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V	
	C 817	QEHR1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 818	QEHR1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 819	QEHR2AM-106Z	E CAPACITOR	10MF 20% 100V	
	C 820	QEHR2AM-106Z	E CAPACITOR	10MF 20% 100V	
	C 821	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 822	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 823	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 824	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 825	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 826	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 827	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 828	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 829	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C 830	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C 901	QEHR1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C 903	QCS31HJ-271Z	C CAPACITOR	270PF 5% 50V	
	C 905	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C 907	QCB31HK-152Z	C CAPACITOR	1500PF 10% 50V	
	C 909	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 911	QCS31HJ-100Z	C CAPACITOR	10PF 5% 50V	
	C 913	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 915	QCS32HJ-330Z	C CAPACITOR	33PF 5% 500V	
	C 917	QEHR1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 919	QEHR2AM-106Z	E CAPACITOR	10MF 20% 100V	
	C 921	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 923	QCS32HJ-470Z	C CAPACITOR	47PF 5% 500V	
	C 925	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 927	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 929	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	CN201	QGF1205C1-14	CONNECTOR		
	CN203	QGD2501C1-05Z	SOCKET		
	CN241	QGD2501C1-05Z	SOCKET		
	CN251	QGA3901F2-03	CONNECTOR		
	CN291	QGB2510J1-04	CONNECTOR		
	CN292	QGB2510K1-04	CONNECTOR		
	CN301	QGB2510K1-14	CONNECTOR		
	CN302	QGB2510K1-14	CONNECTOR		
	CN492	QGB2510K1-04	CONNECTOR		
	CN501	QGB2510K1-07	CONNECTOR		
	CN801	QGB2510K1-14	CONNECTOR		
	CN802	QGB2510K1-14	CONNECTOR		
	CN901	QGB2510K1-14	CONNECTOR		
	C1331	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C1332	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
⚠	D 201	10E2-FD	DIODE		
⚠	D 202	1SR35-400A-T5	DIODE		
⚠	D 203	10E2-FD	DIODE		
⚠	D 204	1SR35-400A-T5	DIODE		
⚠	D 206	1SR35-400A-T5	DIODE		
⚠	D 207	1SR35-400A-T5	DIODE		
⚠	D 208	1SR35-400A-T5	DIODE		
⚠	D 209	1SR35-400A-T5	DIODE		
	D 210	1SS133-T2	SI DIODE		
	D 211	MTZJ6.8C-T2	Z DIODE		
	D 212	1SR139-400-T4	DIODE		
	D 217	MTZJ6.2C-T2	Z DIODE		
	D 218	1SS133-T2	SI DIODE		
	D 219	1SR139-400-T4	DIODE		

■ **Electrical parts list (Power amp board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	D 220	1SR139-400-T4	DIODE		
	D 221	1SS133-T2	SI DIODE		
	D 301	1SS133-T2	SI DIODE		
	D 302	1SS133-T2	SI DIODE		
	D 303	SLR-342MC-T	LED		
	D 304	SLR-342MC-T	LED		
	D 305	1SS133-T2	SI DIODE		
	D 306	1SS133-T2	SI DIODE		
	D 307	1SS133-T2	SI DIODE		
	D 308	1SS133-T2	SI DIODE		
	D 309	1SS133-T2	SI DIODE		
	D 310	1SS133-T2	SI DIODE		
	D 801	1SS133-T2	SI DIODE		
	D 802	1SS133-T2	SI DIODE		
	D 805	1SS133-T2	SI DIODE		
	D 806	1SS133-T2	SI DIODE		
	D 807	1SS133-T2	SI DIODE		
	D 808	1SS133-T2	SI DIODE		
	D 809	1SS133-T2	SI DIODE		
	D 810	1SS133-T2	SI DIODE		
	D 901	1SS133-T2	SI DIODE		
	D 905	1SS133-T2	SI DIODE		
	D 907	1SS133-T2	SI DIODE		
	D 909	1SS133-T2	SI DIODE		
	EP 1	E409182-001SM	GRAND TERMINAL		
	EP201	QNZ0136-001Z	EARTH PLATE		
	FC211	QNG0020-001Z	FUSE CLIP		
	FC212	QNG0020-001Z	FUSE CLIP		
	FC221	QNG0020-001Z	FUSE CLIP		
	FC222	QNG0020-001Z	FUSE CLIP		
	FC231	QNG0020-001Z	FUSE CLIP		
	FC232	QNG0020-001Z	FUSE CLIP		
	FC251	QNG0020-001Z	FUSE CLIP	F205	
	FC252	QNG0020-001Z	FUSE CLIP	F205	
	FW201	QUM137-13Z4Z4	PARA RIBON WIRE		
	FW251	QUM133-08Z4Z4	PARA RIBON WIRE		
	IC501	NJM2246D	IC		
	J 501	QNN0063-001	PIN JACK		
	J 502	QNN0063-001	PIN JACK	VCR(R/P)	
	J 521	QNS0073-001	JACK		
	J1331	QNS0022-001	JACK		
	L 301	QQLZ005-R45	INDUCTOR		
	L 302	QQLZ005-R45	INDUCTOR		
	L 801	QQLZ005-R45	INDUCTOR		
	L 802	QQLZ005-R45	INDUCTOR		
	L 901	QQLZ005-R45	INDUCTOR		
	O 202	DTC123YSA-T	D TRANSISTOR		
	O 203	KTC3203/OY/-T	TRANSISTOR		
	O 205	KTC3200/GL/-T	TRANSISTOR		
	O 207	KRC105M-T	D TRANSISTOR		
	Q 208	KRC105M-T	D TRANSISTOR		
	O 209	KRC105M-T	D TRANSISTOR		
	O 210	KRC105M-T	D TRANSISTOR		
	O 301	2SC2240/L/-T	TRANSISTOR		
	O 302	2SC2240/L/-T	TRANSISTOR		
	O 303	2SC2240/L/-T	TRANSISTOR		
	O 304	2SC2240/L/-T	TRANSISTOR		
	O 305	KTA1268/GL/-T	TRANSISTOR		
	O 306	KTA1268/GL/-T	TRANSISTOR		
	Q 307	KTC3200/GL/-T	TRANSISTOR		
	O 308	KTC3200/GL/-T	TRANSISTOR		
	Q 309	2SD637/QR/	TRANSISTOR		
	O 310	2SD637/QR/	TRANSISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	Q 311	KTC3200/GL/-T	TRANSISTOR		
	O 312	KTC3200/GL/-T	TRANSISTOR		
	O 313	KTA1268/GL/-T	TRANSISTOR		
	O 314	KTA1268/GL/-T	TRANSISTOR		
⚠	O 315	2SD2390/OPY/-F6	TRANSISTOR		
⚠	O 316	2SD2390/OPY/-F6	TRANSISTOR		
⚠	O 317	2SB1560/OPY/-F6	TRANSISTOR		
⚠	O 318	2SB1560/OPY/-F6	TRANSISTOR		
	O 319	KTA1268/GL/-T	TRANSISTOR		
	O 320	KTA1268/GL/-T	TRANSISTOR		
	O 501	KTA1267/YG/-T	TRANSISTOR		
	O 502	KTC3199/GL/-T	TRANSISTOR		
	O 503	KRC101M-T	TRANSISTOR		
	O 504	KTA1267/YG/-T	TRANSISTOR		
	O 505	KTC3199/GL/-T	TRANSISTOR		
	O 801	2SC2240/L/-T	TRANSISTOR		
	O 802	2SC2240/L/-T	TRANSISTOR		
	O 803	2SC2240/L/-T	TRANSISTOR		
	O 804	2SC2240/L/-T	TRANSISTOR		
	O 805	KTA1268/GL/-T	TRANSISTOR		
	Q 806	KTA1268/GL/-T	TRANSISTOR		
	O 809	2SD637/QR/	TRANSISTOR		
	O 810	2SD637/QR/	TRANSISTOR		
	O 811	KTC3200/GL/-T	TRANSISTOR		
	O 812	KTC3200/GL/-T	TRANSISTOR		
	Q 813	KTA1268/GL/-T	TRANSISTOR		
	O 814	KTA1268/GL/-T	TRANSISTOR		
⚠	O 815	2SD2390/OPY/-F6	TRANSISTOR		
⚠	O 816	2SD2390/OPY/-F6	TRANSISTOR		
⚠	O 817	2SB1560/OPY/-F6	TRANSISTOR		
⚠	O 818	2SB1560/OPY/-F6	TRANSISTOR		
	O 819	KTA1268/GL/-T	TRANSISTOR		
	O 820	KTA1268/GL/-T	TRANSISTOR		
	O 901	2SC2240/L/-T	TRANSISTOR		
	O 903	2SC2240/L/-T	TRANSISTOR		
	O 905	KTA1268/GL/-T	TRANSISTOR		
	Q 909	2SD637/QR/	TRANSISTOR		
	O 911	KTC3200/GL/-T	TRANSISTOR		
	O 913	KTA1268/GL/-T	TRANSISTOR		
⚠	O 915	2SD2390/OPY/-F6	TRANSISTOR		
⚠	O 917	2SB1560/OPY/-F6	TRANSISTOR		
	O 919	KTA1268/GL/-T	TRANSISTOR		
⚠	R 201	QRJ146J-4R7X	UNF C RESISTOR	4.7 5% 1/4W	
⚠	R 203	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 204	QRJ146J-821X	UNF C RESISTOR	820 5% 1/4W	
⚠	R 208	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
	R 209	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R 210	QRJ146J-680X	UNF C RESISTOR	68 5% 1/4W	
⚠	R 221	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
	R 301	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 302	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 303	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 304	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 305	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 306	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 307	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 308	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 309	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 310	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
⚠	R 311	QRJ146J-391X	UNF C RESISTOR	390 5% 1/4W	
⚠	R 312	QRJ146J-391X	UNF C RESISTOR	390 5% 1/4W	
	R 313	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 314	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	

■ **Electrical parts list (Power amp board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	R 315	QRJ146J-271X	UNF C RESISTOR	270 5% 1/4W	
⚠	R 316	QRJ146J-271X	UNF C RESISTOR	270 5% 1/4W	
	R 317	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 318	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
⚠	R 319	QRJ146J-471X	UNF C RESISTOR	470 5% 1/4W	
⚠	R 320	QRJ146J-471X	UNF C RESISTOR	470 5% 1/4W	
⚠	R 321	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 322	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 323	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 324	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
	R 325	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 326	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 327	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 328	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 329	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 330	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
⚠	R 331	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 332	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 333	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 334	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
	R 335	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R 336	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R 337	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R 338	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R 339	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 340	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 341	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 342	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
⚠	R 343	QRZ0218-R22	EMIT RESISTOR	1/2W	
⚠	R 344	QRZ0218-R22	EMIT RESISTOR	1/2W	
	R 345	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 346	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 347	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 348	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 349	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 350	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
⚠	R 351	QRJ125J-330	UNF C RESISTOR	33 5% 1/2W	
⚠	R 352	QRJ125J-330	UNF C RESISTOR	33 5% 1/2W	
⚠	R 353	QRL022J-100	UNF OMF RESISTOR	10 5% 1/2W	
⚠	R 354	QRL022J-100	UNF OMF RESISTOR	10 5% 1/2W	
	R 501	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 502	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 505	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 506	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 507	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 508	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 509	QRE141J-750Y	C RESISTOR	75 5% 1/4W	
	R 510	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 511	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 512	QRE141J-271Y	C RESISTOR	270 5% 1/4W	
	R 513	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 514	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 515	QRE141J-271Y	C RESISTOR	270 5% 1/4W	
	R 516	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 521	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 522	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 801	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 802	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 803	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 804	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 805	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 806	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 807	QRE141J-302Y	C RESISTOR	3.0K 5% 1/4W	

⚠	Item	Parts number	Parts name	Remarks	Area
	R 808	QRE141J-302Y	C RESISTOR	3.0K 5% 1/4W	
	R 809	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R 810	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
⚠	R 811	QRJ146J-391X	UNF C RESISTOR	390 5% 1/4W	
⚠	R 812	QRJ146J-391X	UNF C RESISTOR	390 5% 1/4W	
	R 813	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 814	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
⚠	R 815	QRJ146J-331X	UNF C RESISTOR	330 5% 1/4W	
⚠	R 816	QRJ146J-331X	UNF C RESISTOR	330 5% 1/4W	
⚠	R 821	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 822	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 823	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 824	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
	R 825	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 826	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 827	QRE141J-911Y	C RESISTOR	910 5% 1/4W	
	R 828	QRE141J-911Y	C RESISTOR	910 5% 1/4W	
	R 829	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 830	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
⚠	R 831	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 832	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 833	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 834	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
	R 835	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 836	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 837	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 838	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 839	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 840	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 841	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 842	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
⚠	R 843	QRZ0218-R22	EMIT RESISTOR	1/2W	
⚠	R 844	QRZ0218-R22	EMIT RESISTOR	1/2W	
	R 845	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 846	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 847	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 848	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 849	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R 850	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
⚠	R 851	QRJ125J-330	UNF C RESISTOR	33 5% 1/2W	
⚠	R 852	QRJ125J-330	UNF C RESISTOR	33 5% 1/2W	
⚠	R 853	QRL022J-100	UNF OMF RESISTOR	10 5% 1/2W	
⚠	R 854	QRL022J-100	UNF OMF RESISTOR	10 5% 1/2W	
	R 855	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 856	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 857	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 858	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 859	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 860	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 861	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 862	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 901	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 903	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 905	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 907	QRE141J-302Y	C RESISTOR	3.0K 5% 1/4W	
	R 909	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
⚠	R 911	QRJ146J-301X	UNF C RESISTOR	300 5% 1/4W	
	R 913	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
⚠	R 915	QRJ146J-331X	UNF C RESISTOR	330 5% 1/4W	
⚠	R 921	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 923	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
	R 925	QRE141J-361Y	C RESISTOR	360 5% 1/4W	
	R 927	QRE141J-911Y	C RESISTOR	910 5% 1/4W	

■ **Electrical parts list (Power amp board)** **Block No. 01**

⚠	Item	Parts number	Parts name	Remarks	Area
	R 929	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
⚠	R 931	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
⚠	R 933	QRJ146J-100X	UNF C RESISTOR	10 5% 1/4W	
	R 935	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 937	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 939	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 941	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
⚠	R 943	QRZ0218-R22	EMIT RESISTOR	1/2W	
	R 945	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 947	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 949	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
⚠	R 951	QRJ125J-330	UNF C RESISTOR	33 5% 1/2W	
⚠	R 953	QRL022J-100	UNF OMF RESISTOR	10 5% 1/2W	
	R 955	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 957	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 959	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 961	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
⚠	RY202	QSK0098-001	RELAY		
⚠	RY203	QSK0109-001	RELAY		
⚠	R1331	QRL022J-471	UNF OMF RESISTOR	470 5% 1/2W	
⚠	R1332	QRL022J-471	UNF OMF RESISTOR	470 5% 1/2W	
⚠	T 202	QQT0281-002	POWER TRANSF		
	TA201	QNZ0079-001Z	TAB		
	TA202	QNZ0079-001Z	TAB		
⚠	TH301	QAD0012-202	THERMISTOR		
⚠	TH302	QAD0012-202	THERMISTOR		
⚠	TH801	QAD0012-202	THERMISTOR		
⚠	TH802	QAD0012-202	THERMISTOR		
⚠	TH901	QAD0012-202	THERMISTOR		
	VR301	QVP0008-102Z	SEMI.V.RESISTOR		
	VR302	QVP0008-102Z	SEMI V RESISTOR		

■ **Electrical parts list (Main board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 419	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	C 420	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	C 421	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 422	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 423	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 424	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 425	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 426	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 427	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 428	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 429	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 430	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 431	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 432	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 433	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 434	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 435	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 436	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C 440	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 441	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 442	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 443	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 444	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 445	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	C 446	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	CN311	QGB2510J1-14	CONNECTOR		
	CN312	QGB2510J1-14	CONNECTOR		
	CN321	QGB2510J1-14	CONNECTOR		
	CN331	QGB2510J1-14	CONNECTOR		
	CN332	QGB2510J1-14	CONNECTOR		
	CN351	QJK012-032403	SKT WIRE ASSY		
	CN371	QJP001-031201	SHI CR C-B WIRE		
	CN372	QJP002-021201	SHI CR C-B WIRE		
	CN373	QJP001-031201	SHI CR C-B WIRE		
	CN401	QGB2510K1-14	CONNECTOR		
	C1301	QFZ9076-104Z	MM CAPACITOR	.10MF	
	C1302	QCE22HP-103	C CAPACITOR	.010MF +100:-0%	
	C1303	QCE22HP-103	C CAPACITOR	.010MF +100:-0%	
	C1304	QEZ0341-688	E CAPACITER	6800MF	
	C1305	QEZ0341-688	E CAPACITER	6800MF	
	C1306	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1308	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C1309	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1310	QETN1CM-476Z	E CAPACITOR	47MF 20% 16V	
	C1311	QEKC1HM-226Z	E CAPACITOR	22MF 20% 50V	
	C1351	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1352	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1353	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1354	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1359	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C1360	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C1361	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C1362	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C1363	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C1364	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C1365	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C1366	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C1367	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1368	QFLC1HJ-102Z	M CAPACITOR	1000PF 5% 50V	
	C1369	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C1370	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C1371	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1372	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C1373	QFLC1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C1374	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C1375	QCS31HJ-221Z	C CAPACITOR	220PF 5% 50V	
	C1376	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
⚠	D1301	30DF2-FC	DIODE		
⚠	D1302	30DF2-FC	DIODE		
⚠	D1303	30DF2-FC	DIODE		
⚠	D1304	30DF2-FC	DIODE		
	D1305	MTZJ22C-T2	ZENER DIODE		
	D1306	MTZJ30C-T2	ZENER DIODE		
	D1307	1SS133-T2	SI DIODE		
	D1308	1SS133-T2	SI DIODE		
	D1309	MTZJ20C-T2	Z DIODE		
	D1352	1SS133-T2	SI DIODE		
	D1353	1SS133-T2	SI DIODE		
	D1354	1SS133-T2	SI DIODE		
	D1355	1SS133-T2	SI DIODE		
	D1356	MTZJ5.1C-T2	ZENER DIODE		
	D1357	1SS133-T2	SI DIODE		
	D1358	1SS133-T2	SI DIODE		
	D1359	1SS133-T2	SI DIODE		
	D1360	1SS133-T2	SI DIODE		
	EP301	QNZ0136-001Z	EARTH PLATE		
	FW301	QUM135-25Z4Z4	PARA RIBON WIRE		
	FW302	QUM136-25Z4Z4	PARA RIBON WIRE		
	FW303	QUM135-28DGZ4	PARA RIBON WIRE		
	FW341	QUM135-20DGZ4	SOCKET		
	IC402	TC9164AN	IC		
	IC403	BA15218N	IC		
	J 402	QNN0168-001	PIN JACK		
	J 403	QNN0168-001	PIN JACK		
	L1351	QQLZ005-R45	INDUCTOR		
	L1352	QQLZ005-R45	INDUCTOR		
	L1353	QQLZ005-R45	INDUCTOR		
	L1354	QQLZ005-R45	INDUCTOR		
	L1355	QQLZ005-R45	INDUCTOR		
⚠	Q1301	KTA1046/Y/	TRANSISTOR		
	Q1302	KTC3200/GL/-T	TRANSISTOR		
	Q1303	KTA1268/GL/-T	TRANSISTOR		
	Q1304	KTC3199/GL/-T	TRANSISTOR		
	Q1305	2SD2395/EF/	TRANSISTOR		
	Q1306	KTA1023/OY/-T	TRANSISTOR		
	Q1307	KTC3200/GL/-T	TRANSISTOR		
	Q1351	KRC109M-T	D TRANSISTOR		
	Q1352	KRC109M-T	D TRANSISTOR		
	Q1353	KRC109M-T	D TRANSISTOR		
	Q1354	KRC109M-T	D TRANSISTOR		
	Q1355	KRC109M-T	D TRANSISTOR		
	Q1356	KRC109M-T	D TRANSISTOR		
	Q1357	KRC109M-T	D TRANSISTOR		
	Q1358	KRC109M-T	D TRANSISTOR		
	R 421	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 422	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 423	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 424	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 425	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 426	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 429	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 430	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 431	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 432	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 435	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 436	QRE141J-471Y	C RESISTOR	470 5% 1/4W	

■ **Electrical parts list (Main board)** **Block No. 02**

⚠	Item	Parts number	Parts name	Remarks	Area
	R 440	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 441	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 442	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 443	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 444	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 445	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 446	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R 449	QRJ146J-271X	UNF C RESISTOR	270 5% 1/4W	
⚠	R 450	QRJ146J-271X	UNF C RESISTOR	270 5% 1/4W	
⚠	RY302	QSK0109-001	RELAY		
⚠	RY303	QSK0109-001	RELAY		
⚠	RY304	QSK0109-001	RELAY		
⚠	R1301	QRL022J-562	UNF OMF RESISTOR	5.6K 5% 1/2W	
⚠	R1302	QRZ9005-100X	F RESISTOR	10 1/0W	
⚠	R1303	QRJ146J-562X	UNF C RESISTOR	5.6K 5% 1/4W	
	R1304	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1305	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1306	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R1307	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1308	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1309	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1310	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1311	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1312	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
⚠	R1313	QRZ9005-100X	F RESISTOR	10 1/0W	
⚠	R1314	QRJ146J-103X	UNF C RESISTOR	10K 5% 1/4W	
⚠	R1315	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
⚠	R1316	QRJ146J-102X	UNF C RESISTOR	1.0K 5% 1/4W	
⚠	R1317	QRJ146J-223X	UNF C RESISTOR	22K 5% 1/4W	
	R1318	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R1319	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
⚠	R1352	QRJ146J-680X	UNF C RESISTOR	68 5% 1/4W	
⚠	R1353	QRJ146J-680X	UNF C RESISTOR	68 5% 1/4W	
⚠	R1354	QRJ146J-680X	UNF C RESISTOR	68 5% 1/4W	
⚠	R1355	QRJ146J-392X	UNF C RESISTOR	3.9K 5% 1/4W	
	R1356	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1357	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R1358	QRE141J-682Y	C RESISTOR	6.8K 5% 1/4W	
	R1359	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1360	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1361	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1362	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1363	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1364	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R1365	QRE141J-682Y	C RESISTOR	6.8K 5% 1/4W	
	R1366	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R1367	QRE141J-682Y	C RESISTOR	6.8K 5% 1/4W	
⚠	R1370	QRJ146J-2R7X	UNF C RESISTOR	2.7 5% 1/4W	
⚠	R1371	QRJ146J-2R7X	UNF C RESISTOR	2.7 5% 1/4W	
⚠	R1372	QRJ146J-2R7X	UNF C RESISTOR	2.7 5% 1/4W	
⚠	R1373	QRJ146J-2R7X	UNF C RESISTOR	2.7 5% 1/4W	
⚠	R1374	QRJ146J-2R7X	UNF C RESISTOR	2.7 5% 1/4W	
	ST304	QNB0103-002	SPK TERMINAL		
	ST305	QNB0001-002	SPK TERMINAL		

■ **Electrical parts list (System control & Audio board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	BK701	LV42093-001A	FL HOLDER(L)		
	BK702	LV42092-001A	FL HOLDER(R)		
	C 451	NCB31HK-331X	C CAPACITOR		
	C 452	NCB31HK-331X	C CAPACITOR		
	C 459	QFLC1HJ-104Z	M CAPACITOR	.10MF 5% 50V	
	C 460	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 701	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 702	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 703	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 704	NCB31CK-223X	C CAPACITOR		
	C 705	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 706	NCB21HK-331X	C CAPACITOR		
	C 707	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 708	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 709	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 713	NCB21HK-103X	C CAPACITOR		
	C 714	NCB21HK-103X	C CAPACITOR		
	C 715	NCB21HK-103X	C CAPACITOR		
	C 716	NCB21HK-103X	C CAPACITOR		
	C 717	NCB21HK-103X	C CAPACITOR		
	C 718	NCB21HK-103X	C CAPACITOR		
	C 719	NCB21HK-103X	C CAPACITOR		
	C 720	NCB31CK-104X	C CAPACITOR		
	C 721	NCB31CK-104X	C CAPACITOR		
	C 722	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C 730	NCB31CK-104X	C CAPACITOR		
	CN402	QGF1205C1-25	CONNECTOR		
	CN403	QGA2001C1-04	4P PLUG ASSY		
	CN411	QGB2501J1-12	CONNECTOR		
	CN412	QGB2501J1-04	CONNECTOR		
	CN421	QGB2510J1-14	CONNECTOR		
	CN431	QGB2510J1-11	CONNECTOR		
	CN441	QGB2510J1-07	CONNECTOR		
	CN451	QGB2510K1-11	CONNECTOR		
	CN471	QGA2501C1-03	3P CONNECTOR		
	CN472	QGA2501C1-02	2P CONNECTOR		
	CN473	QGA2501C1-03	3P CONNECTOR		
	CN481	QGB2510J1-20	CONNECTOR		
	CN491	QGB2510J1-04	CONNECTOR		
	CN701	QGF1205F1-14	CONNECTOR		
	CN702	QGF1205F1-25	CONNECTOR		
	CN703	WJS0021-001A	SIN CR C-B WIRE		
	CN704	WJS0020-001A	SKT.WIRE ASS'Y		
	CN714	QGA2001C1-03	3P PLUG ASSY		
	C1401	QETN1HM-476Z	E CAPACITOR	47MF 20% 50V	
	C1402	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C1403	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C1404	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C1405	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C1406	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C1407	QCF31HZ-223Z	C CAPACITOR	.022MF +80:-20%	
	C1408	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1409	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C1410	NCB31CK-223X	C CAPACITOR		
	C1411	NCB31CK-223X	C CAPACITOR		
	C1420	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1421	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1422	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1423	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1424	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1425	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C1426	NCB31CK-223X	C CAPACITOR		
	C1427	QFVF1HJ-334Z	MF CAPACITOR	.33MF 5% 50V	

⚠	Item	Parts number	Parts name	Remarks	Area
	C1428	QFLC1HJ-153Z	M CAPACITOR	.015MF 5% 50V	
	C1429	QCB31HK-822Z	C CAPACITOR	8200PF 10% 50V	
	C1430	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1431	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1432	NCB31CK-223X	C CAPACITOR		
	C1433	QFVF1HJ-334Z	MF CAPACITOR	.33MF 5% 50V	
	C1434	QFLC1HJ-153Z	M CAPACITOR	.015MF 5% 50V	
	C1435	QCB31HK-822Z	C CAPACITOR	8200PF 10% 50V	
	C1436	NCB31CK-223X	C CAPACITOR		
	C1437	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C1438	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C1439	QFLC1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C1440	QFLC1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C1444	NCB31CK-223X	C CAPACITOR		
	C1445	NCB31CK-223X	C CAPACITOR		
	C1446	NCB31HK-221X	C CAPACITOR		
	C1447	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1453	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1459	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C1460	NCB31CK-223X	C CAPACITOR		
	C1461	NCB31CK-223X	C CAPACITOR		
	D 701	1SS355-X	DIODE		
	D 702	1SS355-X	DIODE		
	D 719	SLR-342VC-T	LED		
	DI701	QLF0082-001	FL TUBE		
	D1401	MTZJ13C-T2	ZENER DIODE		
	D1402	MTZJ6.2C-T2	Z DIODE		
	D1403	MTZJ5.6C-T2	ZENER DIODE		
	D1404	MTZJ5.6C-T2	ZENER DIODE		
	D1405	MTZJ13C-T2	ZENER DIODE		
	D1406	MTZJ10C-T2	Z DIODE		
	D1407	MTZJ7.5C-T2	ZENER DIODE		
	D1408	MTZJ7.5C-T2	ZENER DIODE		
	D1409	1SS355-X	DIODE		
	D1410	1SS355-X	DIODE		
	D1411	1SS355-X	DIODE		
	D1412	1SS355-X	DIODE		
	D1413	1SR35-400A-T5	DIODE		
	EP401	QNZ0136-001Z	EARTH PLATE		
	FL401	QQR0590-001	FILTER		
	FL402	QQR0590-001	FILTER		
	HS401	E70306-001	HEAT SINK		
	HS402	E70306-001	HEAT SINK		
	HS403	E70306-001	HEAT SINK		
	HS404	E70306-001	HEAT SINK		
	HS405	E70306-001	HEAT SINK		
	HS434	E70306-001	HEAT SINK		
	HS435	E70306-001	HEAT SINK		
	IC423	TC9162AF-X	IC		
	IC427	BA15218F-XE	IC		
	IC428	M62446FP-X	IC		
	IC701	MN101C35DHK1	IC		
	IC702	IC-PST9139-T	IC		
	IC703	GP1U281X	IC		
	J 404	QNN0389-001	PIN JACK	DVD-FL/FR	
	J 406	QNN0060-001	PIN JACK	SW OUT	
	JS701	QSW0898-001	JOG VOLUME		
	Q 701	DTC114YKA-X	D TRANSISTOR		
	Q 702	DTC114TKA-X	TRANSISTOR		
	Q 703	DTC144WKA-X	TRANSISTOR		
	Q 704	DTC114YKA-X	D TRANSISTOR		
	Q 707	DTC114YKA-X	D TRANSISTOR		
	Q 708	DTC114YKA-X	D TRANSISTOR		

■ **Electrical parts list (System control & Audio board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	Q 709	DTC114YKA-X	D TRANSISTOR		
	O 711	DTA144EKA-X	TRANSISTOR		
⚠	O1401	KTA1046/Y/	TRANSISTOR		
⚠	O1402	2SD2395/EF/	TRANSISTOR		
⚠	O1403	2SD2395/EF/	TRANSISTOR		
⚠	O1404	2SD2395/EF/	TRANSISTOR		
⚠	O1405	2SD2395/EF/	TRANSISTOR		
⚠	O1406	KTC3203/OY/-T	TRANSISTOR		
⚠	O1407	KTC3203/OY/-T	TRANSISTOR		
⚠	O1408	KTA1271/OY/-T	TRANSISTOR		
	O1413	2SC3576-JVC-T	TRANSISTOR		
	O1414	2SC3576-JVC-T	TRANSISTOR		
	O1417	2SC3576-JVC-T	TRANSISTOR		
	O1418	2SC3576-JVC-T	TRANSISTOR		
	O1419	2SC3576-JVC-T	TRANSISTOR		
	O1420	KRA104M-T	D TRANSISTOR		
	O1421	2SC3576-JVC-T	TRANSISTOR		
	O1422	2SC3576-JVC-T	TRANSISTOR		
	O1423	KRA104M-T	D TRANSISTOR		
	O1424	KRA104M-T	D TRANSISTOR		
	Q1425	2SC3576-JVC-T	TRANSISTOR		
	O1426	2SC3576-JVC-T	TRANSISTOR		
	O1431	KRC104M-T	D TRANSISTOR		
	O1432	KRC104M-T	D TRANSISTOR		
	O1433	KRC104M-T	D TRANSISTOR		
⚠	Q1434	2SD2395/EF/	TRANSISTOR		
⚠	O1435	2SD2395/EF/	TRANSISTOR		
	R 451	NRSA63J-471X	MG RESISTOR		
	R 452	NRSA63J-471X	MG RESISTOR		
	R 475	NRSA63J-203X	MG RESISTOR		
	R 476	NRSA63J-273X	MG RESISTOR		
⚠	R 477	QRZ9006-4R7X	F RESISTOR	4.7 1/0W	
⚠	R 478	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
⚠	R 479	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R 480	NRSA63J-153X	MG RESISTOR		
	R 483	NRSA63J-102X	MG RESISTOR		
	R 484	NRSA63J-104X	MG RESISTOR		
	R 485	NRSA63J-102X	MG RESISTOR		
	R 486	NRSA63J-104X	MG RESISTOR		
	R 487	NRSA63J-102X	MG RESISTOR		
	R 488	NRSA63J-104X	MG RESISTOR		
	R 489	NRSA63J-562X	MG RESISTOR		
	R 490	NRSA63J-562X	MG RESISTOR		
	R 491	NRSA63J-153X	MG RESISTOR		
	R 492	NRSA63J-273X	MG RESISTOR		
	R 493	NRSA63J-273X	MG RESISTOR		
	R 494	NRSA63J-273X	MG RESISTOR		
	R 495	NRSA63J-273X	MG RESISTOR		
	R 496	NRSA63J-273X	MG RESISTOR		
	R 497	NRSA63J-273X	MG RESISTOR		
	R 498	NRSA63J-273X	MG RESISTOR		
	R 499	NRSA63J-273X	MG RESISTOR		
	R 701	NRSA63J-472X	MG RESISTOR		
	R 702	NRSA63J-223X	MG RESISTOR		
	R 703	NRSA63J-103X	MG RESISTOR		
	R 704	NRSA63J-471X	MG RESISTOR		
	R 705	NRSA63J-103X	MG RESISTOR		
	R 706	NRSA63J-103X	MG RESISTOR		
	R 707	NRSA63J-103X	MG RESISTOR		
	R 708	NRSA63J-103X	MG RESISTOR		
	R 709	NRSA63J-103X	MG RESISTOR		
	R 710	NRSA63J-103X	MG RESISTOR		
	R 711	NRSA63J-104X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R 712	NRSA63J-103X	MG RESISTOR		
	R 713	NRSA63J-103X	MG RESISTOR		
	R 714	NRSA63J-103X	MG RESISTOR		
	R 715	NRSA63J-103X	MG RESISTOR		
	R 716	NRSA63J-103X	MG RESISTOR		
	R 717	NRSA63J-103X	MG RESISTOR		
	R 718	NRSA63J-103X	MG RESISTOR		
	R 719	NRSA63J-221X	MG RESISTOR		
	R 720	NRSA63J-222X	MG RESISTOR		
	R 721	NRSA63J-103X	MG RESISTOR		
	R 722	NRSA63J-102X	MG RESISTOR		
	R 723	NRSA63J-102X	MG RESISTOR		
	R 724	NRSA63J-122X	MG RESISTOR		
	R 725	NRSA63J-152X	MG RESISTOR		
	R 726	NRSA63J-222X	MG RESISTOR		
	R 727	NRSA63J-272X	MG RESISTOR		
	R 728	NRSA63J-103X	MG RESISTOR		
	R 729	NRSA63J-102X	MG RESISTOR		
	R 730	NRSA63J-102X	MG RESISTOR		
	R 731	NRSA63J-122X	MG RESISTOR		
	R 732	NRSA63J-152X	MG RESISTOR		
	R 733	NRSA63J-222X	MG RESISTOR		
	R 734	NRSA63J-272X	MG RESISTOR		
	R 736	NRSA63J-103X	MG RESISTOR		
	R 737	NRSA63J-102X	MG RESISTOR		
	R 738	NRSA63J-102X	MG RESISTOR		
	R 739	NRSA63J-122X	MG RESISTOR		
	R 740	NRSA63J-152X	MG RESISTOR		
	R 741	NRSA63J-222X	MG RESISTOR		
	R 742	NRSA63J-272X	MG RESISTOR		
	R 743	NRSA63J-103X	MG RESISTOR		
	R 744	NRSA63J-102X	MG RESISTOR		
	R 745	NRSA63J-102X	MG RESISTOR		
	R 746	NRSA63J-122X	MG RESISTOR		
	R 747	NRSA63J-152X	MG RESISTOR		
	R 748	NRSA63J-222X	MG RESISTOR		
	R 749	NRSA63J-272X	MG RESISTOR		
	R 750	NRSA63J-103X	MG RESISTOR		
	R 751	NRSA63J-102X	MG RESISTOR		
	R 752	NRSA63J-102X	MG RESISTOR		
	R 753	NRSA63J-122X	MG RESISTOR		
	R 754	NRSA63J-152X	MG RESISTOR		
	R 757	NRSA63J-103X	MG RESISTOR		
	R 758	NRSA63J-103X	MG RESISTOR		
	R 759	NRSA63J-103X	MG RESISTOR		
	R 760	NRSA63J-103X	MG RESISTOR		
	R 761	NRSA63J-103X	MG RESISTOR		
	R 762	NRSA63J-102X	MG RESISTOR		
	R 763	NRSA63J-102X	MG RESISTOR		
	R 768	NRSA63J-103X	MG RESISTOR		
	R 769	NRSA63J-102X	MG RESISTOR		
	R 772	NRSA63J-392X	MG RESISTOR		
	R 773	NRSA63J-392X	MG RESISTOR		
	R 775	NRSA63J-103X	MG RESISTOR		
	R 780	NRSA63J-221X	MG RESISTOR		
	R 781	NRSA63J-221X	MG RESISTOR		
	R 782	NRSA63J-221X	MG RESISTOR		
	R 783	NRSA63J-221X	MG RESISTOR		
	R 784	NRSA63J-221X	MG RESISTOR		
	R 785	NRSA63J-221X	MG RESISTOR		
	R 786	NRSA63J-221X	MG RESISTOR		
	R 787	NRSA63J-221X	MG RESISTOR		
	R 788	NRSA63J-221X	MG RESISTOR		

■ **Electrical parts list (System control & Audio board)** **Block No. 03**

⚠	Item	Parts number	Parts name	Remarks	Area
	R 789	NRSA63J-221X	MG RESISTOR		
	R 790	NRSA63J-221X	MG RESISTOR		
	R 791	NRSA63J-221X	MG RESISTOR		
	R 792	NRSA63J-221X	MG RESISTOR		
	R 793	NRSA63J-221X	MG RESISTOR		
	R 794	NRSA63J-221X	MG RESISTOR		
	R 795	NRSA63J-221X	MG RESISTOR		
	R 796	NRSA63J-221X	MG RESISTOR		
	R 797	NRSA63J-221X	MG RESISTOR		
	R 798	NRSA63J-221X	MG RESISTOR		
	R 799	NRSA63J-221X	MG RESISTOR		
⚠	R1401	QRZ9005-100X	F RESISTOR	10 1/0W	
⚠	R1402	QRJ146J-182X	UNF C RESISTOR	1.8K 5% 1/4W	
⚠	R1403	QRZ9005-120X	F RESISTOR	12 1/0W	
⚠	R1404	QRJ146J-272X	UNF C RESISTOR	2.7K 5% 1/4W	
⚠	R1405	QRZ9005-120X	F RESISTOR	12 1/0W	
⚠	R1406	QRK126J-682X	UNF C RESISTOR	6.8K 5% 1/2W	
⚠	R1407	QRZ9006-4R7X	F RESISTOR	4.7 1/0W	
⚠	R1408	QRZ9006-4R7X	F RESISTOR	4.7 1/0W	
⚠	R1409	QRJ146J-272X	UNF C RESISTOR	2.7K 5% 1/4W	
⚠	R1410	QRZ9006-4R7X	F RESISTOR	4.7 1/0W	
⚠	R1411	QRJ146J-182X	UNF C RESISTOR	1.8K 5% 1/4W	
⚠	R1412	QRZ9005-100X	F RESISTOR	10 1/0W	
⚠	R1413	QRJ146J-102X	UNF C RESISTOR	1.0K 5% 1/4W	
⚠	R1414	QRZ9005-100X	F RESISTOR	10 1/0W	
⚠	R1415	QRJ146J-222X	UNF C RESISTOR	2.2K 5% 1/4W	
⚠	R1416	QRZ9005-100X	F RESISTOR	10 1/0W	
⚠	R1417	QRJ146J-222X	UNF C RESISTOR	2.2K 5% 1/4W	
⚠	R1418	QRZ9005-680X	F RESISTOR	68 1/0W	
⚠	R1419	QRZ9005-680X	F RESISTOR	68 1/0W	
	R1435	NRSA63J-154X	MG RESISTOR		
	R1436	NRSA63J-154X	MG RESISTOR		
	R1437	NRSA63J-102X	MG RESISTOR		
	R1438	NRSA63J-102X	MG RESISTOR		
	R1439	NRSA63J-103X	MG RESISTOR		
	R1440	NRSA63J-103X	MG RESISTOR		
	R1442	NRSA63J-104X	MG RESISTOR		
	R1444	NRSA63J-103X	MG RESISTOR		
	R1445	NRSA63J-102X	MG RESISTOR		
	R1446	NRSA63J-104X	MG RESISTOR		
	R1447	NRSA63J-102X	MG RESISTOR		
	R1448	NRSA63J-103X	MG RESISTOR		
	R1449	NRSA63J-102X	MG RESISTOR		
	R1450	NRSA63J-103X	MG RESISTOR		
	R1451	NRSA63J-104X	MG RESISTOR		
	R1452	NRSA63J-104X	MG RESISTOR		
	R1453	NRSA63J-102X	MG RESISTOR		
	R1454	NRSA63J-104X	MG RESISTOR		
	R1455	NRSA63J-104X	MG RESISTOR		
⚠	R1456	QRJ146J-220X	UNF C RESISTOR	22 5% 1/4W	
	R1457	NRSA63J-472X	MG RESISTOR		
	R1458	NRSA63J-472X	MG RESISTOR		
⚠	R1459	QRZ9005-680X	F RESISTOR	68 1/0W	
⚠	R1460	QRZ9005-680X	F RESISTOR	68 1/0W	
⚠	R1461	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
⚠	R1462	QRJ146J-2R2X	UNF C RESISTOR	2.2 5% 1/4W	
	R1463	NRSA63J-104X	MG RESISTOR		
	R1464	NRSA63J-104X	MG RESISTOR		
	R1465	NRSA63J-102X	MG RESISTOR		
	R1470	NRSA63J-391X	MG RESISTOR		
	R1471	NRSA63J-391X	MG RESISTOR		
	R1472	NRSA63J-103X	MG RESISTOR		
	R1473	NRSA63J-103X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R1474	NRSA63J-102X	MG RESISTOR		
	R1480	NRSA63J-104X	MG RESISTOR		
	R1490	NRSA63J-273X	MG RESISTOR		
	R1492	NRSA63J-102X	MG RESISTOR		
	R1493	NRSA63J-102X	MG RESISTOR		
	R1494	NRSA63J-102X	MG RESISTOR		
	R1495	NRSA63J-103X	MG RESISTOR		
	R1496	NRSA63J-103X	MG RESISTOR		
	R1497	NRSA63J-511X	MG RESISTOR		
	R1498	NRSA63J-511X	MG RESISTOR		
	R1499	NRSA63J-104X	MG RESISTOR		
	S 721	QSW0683-001Z	PUSH SWITCH	TUNING+	
	S 722	QSW0683-001Z	PUSH SWITCH	TUNING-	
	S 723	QSW0683-001Z	PUSH SWITCH	PRESET+	
	S 724	QSW0683-001Z	PUSH SWITCH	PRESET-	
	S 725	QSW0683-001Z	PUSH SWITCH	FM MODE	
	S 726	QSW0683-001Z	PUSH SWITCH	MEMORY	
	S 727	QSW0683-001Z	PUSH SWITCH	POWER	
	S 728	QSW0683-001Z	PUSH SWITCH	SURROUND	
	S 729	QSW0683-001Z	PUSH SWITCH	DSP MODE	
	S 732	QSW0683-001Z	PUSH SWITCH	SPK1	
	S 740	QSW0683-001Z	PUSH SWITCH	TV/DBS	
	S 741	QSW0683-001Z	PUSH SWITCH	FM/AM	
	S 742	QSW0683-001Z	PUSH SWITCH	ADJUST	
	S 743	QSW0683-001Z	PUSH SWITCH	SETTING	
	S 744	QSW0683-001Z	PUSH SWITCH	+	
	S 745	QSW0683-001Z	PUSH SWITCH	-	
	S 746	QSW0683-001Z	PUSH SWITCH	EON	
	S 747	QSW0683-001Z	PUSH SWITCH	PTY	
	S 748	QSW0683-001Z	PUSH SWITCH	TA/NEWS/INFO	
	S 749	QSW0683-001Z	PUSH SWITCH	DISPLAY	
	S 751	QSW0683-001Z	PUSH SWITCH	DIGITAL	
	S 752	QSW0683-001Z	PUSH SWITCH	ANALOG	
	S 754	QSW0683-001Z	PUSH SWITCH	DVD	
	S 755	QSW0683-001Z	PUSH SWITCH	CD	
	S 756	QSW0683-001Z	PUSH SWITCH	VCR	
	S 757	QSW0683-001Z	PUSH SWITCH	TAPE/CDR	
	X 701	QAX0246-001Z	RESONATOR		

■ **Electrical parts list (DSP board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	C 601	NCB31HK-102X	C CAPACITOR		
	C 602	NCB31HK-102X	C CAPACITOR		
	C 603	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 604	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 605	NCF31CZ-104X	C CAPACITOR		
	C 606	NCF31CZ-104X	C CAPACITOR		
	C 607	QETN1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 608	NCF31CZ-104X	C CAPACITOR		
	C 609	NCF31CZ-104X	C CAPACITOR		
	C 610	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 611	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 612	NCB31CK-103X	C CAPACITOR		
	C 621	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 622	NCB31HK-101X	C CAPACITOR		
	C 624	NCF31CZ-104X	C CAPACITOR		
	C 626	NCB31CK-104X	C CAPACITOR		
	C 627	NCF31AZ-105X	C CAPACITOR		
	C 628	NCB31CK-103X	C CAPACITOR		
	C 631	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 632	NCB31CK-103X	C CAPACITOR		
	C 633	NCF31CZ-104X	C CAPACITOR		
	C 634	NCF31CZ-104X	C CAPACITOR		
	C 635	NCF31CZ-104X	C CAPACITOR		
	C 636	NCB31CK-473X	C CAPACITOR		
	C 638	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 639	NCB31CK-103X	C CAPACITOR		
	C 641	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 642	NCB31CK-103X	C CAPACITOR		
	C 643	NCB31AK-474X	C CAPACITOR		
	C 644	NCB31CK-103X	C CAPACITOR		
	C 645	NCS31HJ-101X	C CAPACITOR		
	C 646	NCB31CK-103X	C CAPACITOR		
	C 647	NCS31HJ-220X	C CAPACITOR		
	C 648	NCS31HJ-180X	C CAPACITOR		
	C 649	NCS31HJ-121X	C CAPACITOR		
	C 653	NCB31CK-104X	C CAPACITOR		
	C 654	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 661	NCB31CK-103X	C CAPACITOR		
	C 671	NCB31CK-103X	C CAPACITOR		
	C 672	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 673	NCB31CK-103X	C CAPACITOR		
	C 677	NCB31HK-101X	C CAPACITOR		
	C 679	NCB31HK-101X	C CAPACITOR		
	C 681	NCB31CK-103X	C CAPACITOR		
	C 682	NCB31CK-103X	C CAPACITOR		
	C 683	NCB31CK-103X	C CAPACITOR		
	C 684	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 685	QETN1CM-476Z	E CAPACITOR	47MF 20% 16V	
	C 686	QETN1CM-476Z	E CAPACITOR	47MF 20% 16V	
	C 687	NCB31CK-103X	C CAPACITOR		
	C 688	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 689	NCB31CK-103X	C CAPACITOR		
	C 690	QETN0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C 693	NCB31CK-103X	C CAPACITOR		
	C 694	NCB31CK-103X	C CAPACITOR		
	CN681	QGB2510K1-20	B TO B CONNECTOR		
	C2500	QETN1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C2503	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2504	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2507	NCS31HJ-330X	C CAPACITOR		
	C2508	NCS31HJ-330X	C CAPACITOR		
	C2512	NCF31CZ-104X	C CAPACITOR		
	C2513	NCB31HK-122X	C CAPACITOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	C2514	NCB31HK-122X	C CAPACITOR		
	C2515	NCS31HJ-121X	C CAPACITOR		
	C2516	NCS31HJ-121X	C CAPACITOR		
	C2517	NCS31HJ-391X	C CAPACITOR		
	C2518	NCS31HJ-391X	C CAPACITOR		
	C2525	NCB31HK-102X	C CAPACITOR		
	C2526	NCB31HK-102X	C CAPACITOR		
	C2527	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2528	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2531	NCS31HJ-560X	C CAPACITOR		
	C2532	NCS31HJ-560X	C CAPACITOR		
	C2533	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2534	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2539	NCF31CZ-104X	C CAPACITOR		
	C2540	NCF31CZ-104X	C CAPACITOR		
	C2551	NCS31HJ-560X	C CAPACITOR		
	C2552	NCS31HJ-560X	C CAPACITOR		
	C2555	NCF31CZ-104X	C CAPACITOR		
	C2556	NCF31CZ-104X	C CAPACITOR		
	C2561	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C2562	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C2563	NCS31HJ-220X	C CAPACITOR		
	C2564	NCS31HJ-220X	C CAPACITOR		
	C2569	NCF31CZ-104X	C CAPACITOR		
	C2570	NCF31CZ-104X	C CAPACITOR		
	C2575	NCB31HK-102X	C CAPACITOR		
	C2576	NCB31HK-102X	C CAPACITOR		
	C2577	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2578	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2581	QETN1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C2582	QETN1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C2583	NCS31HJ-220X	C CAPACITOR		
	C2584	NCS31HJ-560X	C CAPACITOR		
	C2585	NCF31CZ-104X	C CAPACITOR		
	C2586	NCF31CZ-104X	C CAPACITOR		
	C2587	NCS31HJ-560X	C CAPACITOR		
	C2588	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C2589	NCF31CZ-104X	C CAPACITOR		
	C2590	NCF31CZ-104X	C CAPACITOR		
	C2592	NCB31HK-223X	C CAPACITOR		
	C2594	NCF31CZ-104X	C CAPACITOR		
	C2595	NCB31HK-102X	C CAPACITOR		
	C2597	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C2598	QETN1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	D 607	1SS355-X	DIODE		
	D 608	1SS355-X	DIODE		
	IC601	AK4527BVQ	IC		
	IC609	BA15218F-XE	IC		
	IC610	BA15218F-XE	IC		
	IC611	BU4066BCF-X	IC		
	IC621	TC7SU04FU-X	IC		
	IC622	TC7SU04FU-X	IC		
	IC631	TC9446F-014	IC		
	IC641	W24L010AJ-12-X	IC		
	IC650	BA15218F-XE	IC		
	IC651	BA15218F-XE	IC		
	IC652	IMX9-W	TRANSISTOR		
	IC661	BA15218F-XE	IC		
	IC662	IMX9-W	TRANSISTOR		
	IC671	UPD784215AGC103	IC		
	IC672	TC7SET32FU-X	IC		
	IC681	PQ3DZ53-X	IC		
	IC682	IMX9-W	TRANSISTOR		

■ **Electrical parts list (DSP board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	IC683	RN5RZ33BA-X	IC		
	IC690	BA15218F-XE	IC		
	IC691	BA15218F-XE	IC		
	J 601	QNN0347-001	PIN JACK		
	K 601	NQR0269-004X	FERRITE BEADS		
	K 681	NQR0319-001X	F BEADS		
	K 682	NQR0319-001X	F BEADS		
	K 687	NQR0319-001X	F BEADS		
	K 688	NQR0319-001X	F BEADS		
	LC631	NQR0321-001X	EMI FILTER		
	Q 607	DTA144EKA-X	TRANSISTOR		
	Q 670	DTC114YE-X	TRANSISTOR		
	Q 671	2SD2114K/VW/-X	CHIP TRANSISTOR		
	Q 672	DTC114YE-X	TRANSISTOR		
	Q 673	DTA144EKA-X	TRANSISTOR		
	Q2501	DTA144EKA-X	TRANSISTOR		
	R 600	NRSA63J-0R0X	MG RESISTOR		
	R 601	NRSA63J-473X	MG RESISTOR		
	R 602	NRSA63J-473X	MG RESISTOR		
	R 603	NRSA63J-473X	MG RESISTOR		
	R 606	NRSA63J-221X	MG RESISTOR		
	R 607	NRSA63J-221X	MG RESISTOR		
	R 608	NRSA63J-221X	MG RESISTOR		
	R 609	NRSA63J-221X	MG RESISTOR		
	R 611	NRSA63J-221X	MG RESISTOR		
	R 612	NRSA63J-221X	MG RESISTOR		
	R 613	NRSA63J-822X	MG RESISTOR		
	R 615	NRSA63J-432X	MG RESISTOR		
	R 617	NRSA63J-103X	MG RESISTOR		
	R 618	NRSA63J-103X	MG RESISTOR		
	R 621	NRSA63J-221X	MG RESISTOR		
	R 622	NRSA63J-750X	MG RESISTOR		
	R 623	NRSA63J-101X	MG RESISTOR		
	R 627	NRSA63J-472X	MG RESISTOR		
	R 628	NRSA63J-183X	MG RESISTOR		
	R 632	NRSA63J-0R0X	MG RESISTOR		
	R 639	NRSA63J-472X	MG RESISTOR		
	R 640	NRSA63J-0R0X	MG RESISTOR		
	R 641	NRSA63J-102X	MG RESISTOR		
	R 642	NRSA63J-103X	MG RESISTOR		
	R 643	NRSA63J-101X	MG RESISTOR		
	R 644	NRSA63J-563X	MG RESISTOR		
	R 645	NRSA63J-102X	MG RESISTOR		
	R 646	NRSA63J-103X	MG RESISTOR		
	R 647	NRSA63J-225X	MG RESISTOR		
	R 648	NRSA63J-472X	MG RESISTOR		
	R 657	NRSA63J-103X	MG RESISTOR		
	R 661	NRSA63J-221X	MG RESISTOR		
	R 662	NRSA63J-221X	MG RESISTOR		
	R 663	NRSA63J-221X	MG RESISTOR		
	R 664	NRSA63J-221X	MG RESISTOR		
	R 669	NRSA63J-103X	MG RESISTOR		
	R 670	NRSA63J-103X	MG RESISTOR		
	R 671	NRSA63J-103X	MG RESISTOR		
	R 672	NRSA63J-105X	MG RESISTOR		
	R 673	NRSA63J-432X	MG RESISTOR		
	R 674	NRSA63J-432X	MG RESISTOR		
	R 675	NRSA63J-432X	MG RESISTOR		
	R 676	NRSA63J-432X	MG RESISTOR		
	R 677	NRSA63J-822X	MG RESISTOR		
	R 678	NRSA63J-822X	MG RESISTOR		
	R 679	NRSA63J-822X	MG RESISTOR		
	R 680	NRSA63J-822X	MG RESISTOR		

⚠	Item	Parts number	Parts name	Remarks	Area
	R 681	NRSA63J-103X	MG RESISTOR		
	R 682	NRSA63J-103X	MG RESISTOR		
	R 683	NRSA63J-0R0X	MG RESISTOR		
	R 684	NRSA63J-0R0X	MG RESISTOR		
	R 685	NRSA63J-103X	MG RESISTOR		
	R 686	NRSA63J-151X	MG RESISTOR		
	R 688	NRSA63J-0R0X	MG RESISTOR		
	R 691	NRSA63J-221X	MG RESISTOR		
	R 692	NRSA63J-221X	MG RESISTOR		
	R 693	NRSA63J-221X	MG RESISTOR		
	R 694	NRSA63J-221X	MG RESISTOR		
	R 695	NRSA63J-221X	MG RESISTOR		
	R 696	NRSA63J-221X	MG RESISTOR		
	R2500	NRSA63J-102X	MG RESISTOR		
	R2501	NRSA63J-104X	MG RESISTOR		
	R2502	NRSA63J-104X	MG RESISTOR		
	R2507	NRSA63J-223X	MG RESISTOR		
	R2508	NRSA63J-223X	MG RESISTOR		
	R2509	NRSA63J-223X	MG RESISTOR		
	R2510	NRSA63J-223X	MG RESISTOR		
	R2511	NRSA63J-103X	MG RESISTOR		
	R2512	NRSA63J-103X	MG RESISTOR		
	R2513	NRSA63J-103X	MG RESISTOR		
	R2514	NRSA63J-103X	MG RESISTOR		
	R2515	NRSA63J-103X	MG RESISTOR		
	R2516	NRSA63J-103X	MG RESISTOR		
	R2517	NRSA63J-103X	MG RESISTOR		
	R2518	NRSA63J-103X	MG RESISTOR		
	R2519	NRSA63J-331X	MG RESISTOR		
	R2520	NRSA63J-331X	MG RESISTOR		
	R2521	NRSA63J-331X	MG RESISTOR		
	R2522	NRSA63J-331X	MG RESISTOR		
	R2525	NRSA63J-102X	MG RESISTOR		
	R2526	NRSA63J-102X	MG RESISTOR		
	R2527	NRSA63J-104X	MG RESISTOR		
	R2528	NRSA63J-104X	MG RESISTOR		
	R2529	NRSA63J-103X	MG RESISTOR		
	R2530	NRSA63J-103X	MG RESISTOR		
	R2531	NRSA63J-752X	MG RESISTOR		
	R2532	NRSA63J-752X	MG RESISTOR		
	R2533	NRSA63J-103X	MG RESISTOR		
	R2534	NRSA63J-103X	MG RESISTOR		
	R2535	NRSA63J-103X	MG RESISTOR		
	R2536	NRSA63J-103X	MG RESISTOR		
	R2537	NRSA63J-104X	MG RESISTOR		
	R2538	NRSA63J-104X	MG RESISTOR		
	R2550	NRSA63J-272X	MG RESISTOR		
	R2551	NRSA63J-103X	MG RESISTOR		
	R2552	NRSA63J-103X	MG RESISTOR		
	R2553	NRSA63J-153X	MG RESISTOR		
	R2554	NRSA63J-153X	MG RESISTOR		
	R2555	NRSA63J-822X	MG RESISTOR		
	R2556	NRSA63J-822X	MG RESISTOR		
	R2557	NRSA63J-103X	MG RESISTOR		
	R2558	NRSA63J-223X	MG RESISTOR		
	R2560	NRSA63J-105X	MG RESISTOR		
	R2561	NRSA63J-104X	MG RESISTOR		
	R2562	NRSA63J-104X	MG RESISTOR		
	R2563	NRSA63J-103X	MG RESISTOR		
	R2564	NRSA63J-103X	MG RESISTOR		
	R2565	NRSA63J-202X	MG RESISTOR		
	R2566	NRSA63J-202X	MG RESISTOR		
	R2567	NRSA63J-103X	MG RESISTOR		

■ **Electrical parts list (DSP board)** **Block No. 04**

⚠	Item	Parts number	Parts name	Remarks	Area
	R2568	NRSA63J-103X	MG RESISTOR		
	R2575	NRSA63J-102X	MG RESISTOR		
	R2576	NRSA63J-102X	MG RESISTOR		
	R2577	NRSA63J-104X	MG RESISTOR		
	R2578	NRSA63J-104X	MG RESISTOR		
	R2581	NRSA63J-104X	MG RESISTOR		
	R2582	NRSA63J-104X	MG RESISTOR		
	R2583	NRSA63J-123X	MG RESISTOR		
	R2584	NRSA63J-223X	MG RESISTOR		
	R2585	NRSA63J-302X	MG RESISTOR		
	R2586	NRSA63J-332X	MG RESISTOR		
	R2587	NRSA63J-103X	MG RESISTOR		
	R2588	NRSA63J-103X	MG RESISTOR		
	R2589	NRSA63J-104X	MG RESISTOR		
	R2590	NRSA63J-333X	MG RESISTOR		
	R2592	NRSA63J-333X	MG RESISTOR		
	R2594	NRSA63J-333X	MG RESISTOR		
	R2595	NRSA63J-102X	MG RESISTOR		
	R2596	NRSA63J-102X	MG RESISTOR		
	R2597	NRSA63J-104X	MG RESISTOR		
	R2598	NRSA63J-104X	MG RESISTOR		
	UN661	GP1FA550RZ	OPT RECEIVER		
	X 631	NAX0385-001X	CRYSTAL		
	X 671	NAX0275-001X	1COSCIALLATOR		

■ **Electrical parts list (Tuner board)** **Block No. 05**

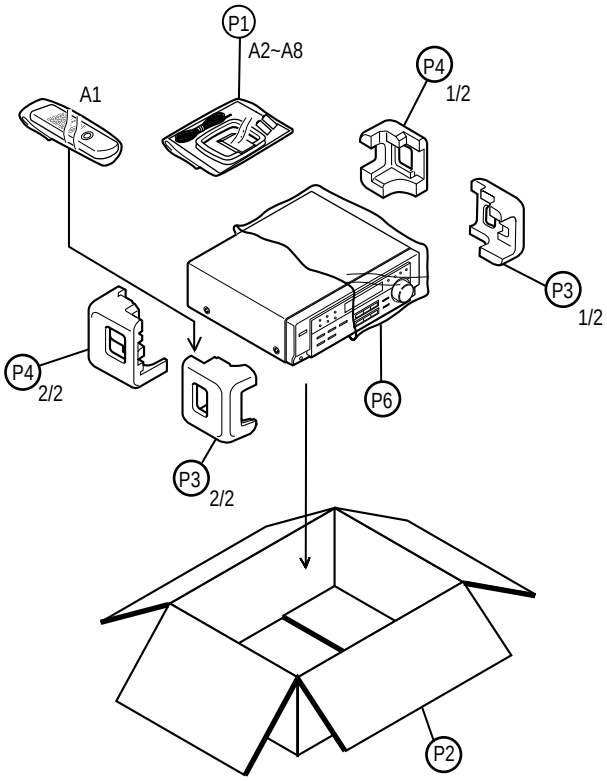
⚠	Item	Parts number	Parts name	Remarks	Area
	AT101	QNB0014-001	ANT TERMINAL		
	BK 1	LV31618-001A	SHIELD BKT		
	C 101	NCB21HK-103X	C CAPACITOR		
	C 103	NCB21HK-223X	C CAPACITOR		
	C 105	NCB21HK-223X	C CAPACITOR		
	C 107	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 111	NCB21HK-473X	C CAPACITOR		
	C 112	NDC21HJ-120X	C CAPACITOR		
	C 113	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	
	C 121	NDC21HJ-120X	C CAPACITOR		
	C 122	NDC21HJ-120X	C CAPACITOR		
	C 123	NCB21HK-473X	C CAPACITOR		
	C 126	NCS21HJ-101X	C CAPACITOR		
	C 128	QENC1HM-474Z	NP E CAPACITOR	.47MF 20% 50V	
	C 129	NCB21HK-102X	C CAPACITOR		
	C 130	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 133	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 134	NCB21HK-222X	C CAPACITOR		
	C 135	NCB21HK-223X	C CAPACITOR		
	C 136	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 137	NCS21HJ-680X	C CAPACITOR		
	C 139	NCB21HK-393X	C CAPACITOR		
	C 140	NCB21HK-393X	C CAPACITOR		
	C 141	NCB21HK-473X	C CAPACITOR		
	C 143	NCB21HK-223X	C CAPACITOR		
	C 144	NCB21HK-473X	C CAPACITOR		
	C 146	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 147	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 148	QEKC1HM-224Z	E CAPACITOR	.22MF 20% 50V	
	C 149	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 150	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 156	QDGB1HK-102Y	C CAPACITOR		
	C 157	NCB21HK-473X	C CAPACITOR		
	C 158	QEKC1CM-226Z	E CAPACITOR	22MF 20% 16V	
	C 161	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 162	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 163	NCB21HK-223X	C CAPACITOR		
	C 164	NCB21HK-473X	C CAPACITOR		
	C 168	QEKC1HM-105Z	E CAPACITOR	1.0MF 20% 50V	
	C 184	QEKC1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 185	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 186	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	C 191	NCS21HJ-820X	C CAPACITOR		
	C 192	NCS21HJ-470X	C CAPACITOR		
	C 193	NCB21HK-561X	C CAPACITOR		
	C 194	NCB21HK-104X	C CAPACITOR		
	C 195	NCB21HK-331X	C CAPACITOR		
	C 196	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 197	NCB21HK-473X	C CAPACITOR		
	C 199	QEKC1CM-106Z	E CAPACITOR	10MF 20% 16V	
	CF101	QAX0285-001Z	C FILTER		
	CF102	QAX0285-001Z	C FILTER		
	CF103	QAX0519-001Z	C FILTER		
	CN111	QGB2501K2-12	CONECTOR		
	CN112	QGB2501K1-04	CONNECTOR		
	D 121	1SS133-T2	SI DIODE		
	D 123	1SS133-T2	SI DIODE		
	D 129	1SS133-T2	SI DIODE		
	D 131	1SS133-T2	SI DIODE		
	IC102	LA1838	IC		
	IC121	LC72136N	IC		
	IC191	SAA6588	IC(RDS)		
	L 112	QQL231K-2R7Y	INDUCTOR		
	Q 102	2SC535/BC/-T	TRANSISTOR		
	Q 103	2SC461/BC/-T	TRANSISTOR		
	Q 111	KTC3199/GL/-T	TRANSISTOR		
	Q 112	KTC3199/GL/-T	TRANSISTOR		
	Q 113	DTA114YKA-X	TRANSISTOR		
	Q 121	KRA103M-T	TRANSISTOR		
	R 103	NRSA02J-221X	MG RESISTOR		
	R 104	NRSA02J-272X	MG RESISTOR		
	R 105	NRSA02J-391X	MG RESISTOR		
	R 106	NRSA02J-102X	MG RESISTOR		
	R 107	NRSA02J-561X	MG RESISTOR		
	R 108	NRSA02J-332X	MG RESISTOR		
	R 109	NRSA02J-221X	MG RESISTOR		
	R 111	NRSA02J-472X	MG RESISTOR		
	R 112	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 114	NRSA02J-122X	MG RESISTOR		
	R 115	NRSA02J-104X	MG RESISTOR		
	R 119	NRSA02J-103X	MG RESISTOR		
	R 122	NRSA02J-472X	MG RESISTOR		
	R 124	NRSA02J-222X	MG RESISTOR		
	R 126	NRSA02J-562X	MG RESISTOR		
	R 127	NRSA02J-822X	MG RESISTOR		
	R 128	NRSA02J-472X	MG RESISTOR		
	R 129	NRSA02J-222X	MG RESISTOR		
⚠	R 130	QRZ9005-680X	F RESISTOR	68 1/0W	
	R 132	NRSA02J-393X	MG RESISTOR		
	R 133	NRSA02J-392X	MG RESISTOR		
	R 134	NRSA02J-102X	MG RESISTOR		
	R 140	NRSA02J-473X	MG RESISTOR		
	R 141	NRSA02J-102X	MG RESISTOR		
	R 142	NRSA02J-470X	MG RESISTOR		
	R 143	NRSA02J-562X	MG RESISTOR		
	R 144	NRSA02J-332X	MG RESISTOR		
	R 145	NRSA02J-103X	MG RESISTOR		
	R 146	NRSA02J-472X	MG RESISTOR		
	R 147	NRSA02J-332X	MG RESISTOR		
	R 150	NRSA02J-331X	MG RESISTOR		
	R 157	NRSA02J-332X	MG RESISTOR		
	R 158	NRSA02J-332X	MG RESISTOR		
	R 161	NRSA02J-102X	MG RESISTOR		
	R 162	NRSA02J-102X	MG RESISTOR		
	R 182	NRSA02J-103X	MG RESISTOR		
	R 183	NRSA02J-103X	MG RESISTOR		
	R 184	NRSA02J-103X	MG RESISTOR		
	R 191	NRSA02J-102X	MG RESISTOR		
	R 192	NRSA02J-474X	MG RESISTOR		
	R 193	NRSA02J-103X	MG RESISTOR		
	R 194	NRSA02J-103X	MG RESISTOR		
	RF101	QAU0119-001	FRONT END	FOR FTZ	
	T 111	QQR0871-001	COIL BLOCK		
	T 142	QQR0973-001	IFT		
	X 121	QAX0402-001	CRYSTAL		
	X 191	QAX0263-001Z	CRYSTAL		

Packing materials and accessories parts list

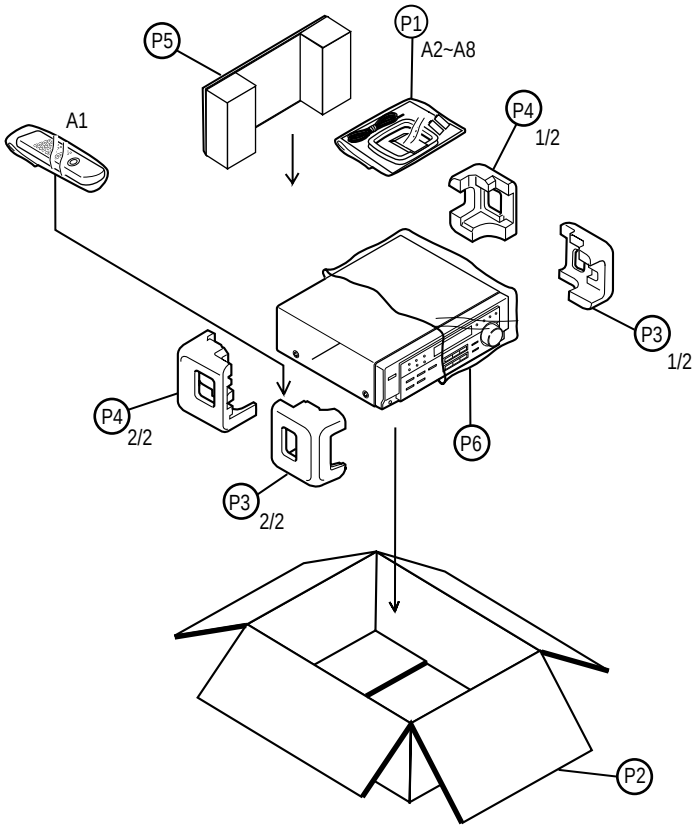
Block No. M 2 M M

Block No. M 3 M M

Ver.E/EN



Ver.B



■ Parts list (Packing)

Block No. M2MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	QPA02503505P	POLY BAG	1	FOR INST	
	P 2	LV20983-006A	PACKING CASE	1	RX-6012RSL	B
		LV20983-005A	PACKING CASE	1	RX-6012RSL	
		LV20983-003A	PACKING CASE	1	RX-6010RBK	
	P 3	LV20925-001A	PACKING PAD	1		
	P 4	LV20926-001A	PACKING PAD	1		
	P 5	LV30385-004A	SHEET	1		B
	P 6	QPC06507015P	POLY BAG	1	FOR SET	

■ Parts list (Accessories)

Block No. M3MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	RM-SRX6010R	REMOCON	1	RX-6010RBK	
		RM-SRX6012R	REMOCON	1	RX-6012RSL	
	A 2	----------	BATTERY	1		
	A 3	LVT0578-006A	INST BOOK	1	FRE, SPA, ITA	EN
		LVT0578-006A	INST BOOK	1	SWE, FIN, DAN, GER	EN
		LVT0578-005A	INST BOOK	1	ENG	B
		LVT0578-004A	INST BOOK	1	GER, FRE, DUT	E
	A 4	EWP503-001C	ANT.WIRE	1		
	A 5	QAL0204-001	AM LOOP ANT	1		
	A 6	E43486-340A	BS=SAFETY INST	1		B
	A 7	VNA3000-204	REGIST.CARD	1		B
	A 8	BT-54008-2	WARRANTY CARD	1		
		BT-54013-1	WARRANTY CARD	1		E